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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

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BARRY M. LOCKE, CHAIRMAN

ANNUAL REPORT





ANNUAL REPORT 1980

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The front and back covers were designed by Arthur Edwards and Mac Brodie, respectively, design trainees participating in the MBTA's Southwest Corridor Educational Training Program. The Authority wishes to express its appreciation to both designers for the time and effort that went into their artwork.





Board of Directors 50 High Street, Boston, Mass. 02110

March 31, 1981

To: His Excellency The Governor, The General Court,
The Secretary of Transportation, and the Advisory Board
to the Massachusetts Bay Transportation Authority

The Board of Directors of the Massachusetts Bay Transportation Authority, in accordance with the requirements of Section 5(h) of Chapter 161A of the General Laws, hereby submits the Authority's Annual Report covering operations for the calendar year 1980, including a description of the organization of the Authority, its recommendations for legislation and the comprehensive program for mass transportation prepared by the Executive Office of Transportation and Construction. Also included are departmental reports on their accomplishments during 1980.

The Authority faced difficult financial problems right from the beginning of the year because its 1980 operating budget was drastically underfunded by the Advisory Board. Repeated attempts to seek supplemental funds from the Advisory Board were unsuccessful and led, unhappily, to the one-day shutdown of service on December 6. However, by your action in calling a special session of the Legislature, \$41 million was appropriated to carry the Authority's operations through December 31, 1980, and service resumed December 7.

In addition to the net assessable cost of service, there are two other items which must be considered by the 79 cities and towns in their settlement in November, 1981 of their 1980 accounts with the Commonwealth. These are the accounts:

	Without Additional State Aid	With Additional State Aid of \$110,550,274*
Net Assessable Cost of Service	\$197,805,668	\$ 87,255,394
Interest Charged by State Treasurer on Temporary Borrowings (Estimated)	\$ 14,400,000	\$ 14,400,000
Expenses of Boston Metropolitan District	\$ 16,000	\$ 16,000
Net Cost to Communities	\$212,221,668	\$101,671,394

*House Bill No. 1, the state budget for Fiscal Year 1982 beginning July 1, 1981, provides additional contract assistance of \$110,364,096, subject to legislative approval and appropriation.

The following statement shows the Authority's comparative net cost of service including all elements of cost for calendar years 1980 and 1979.

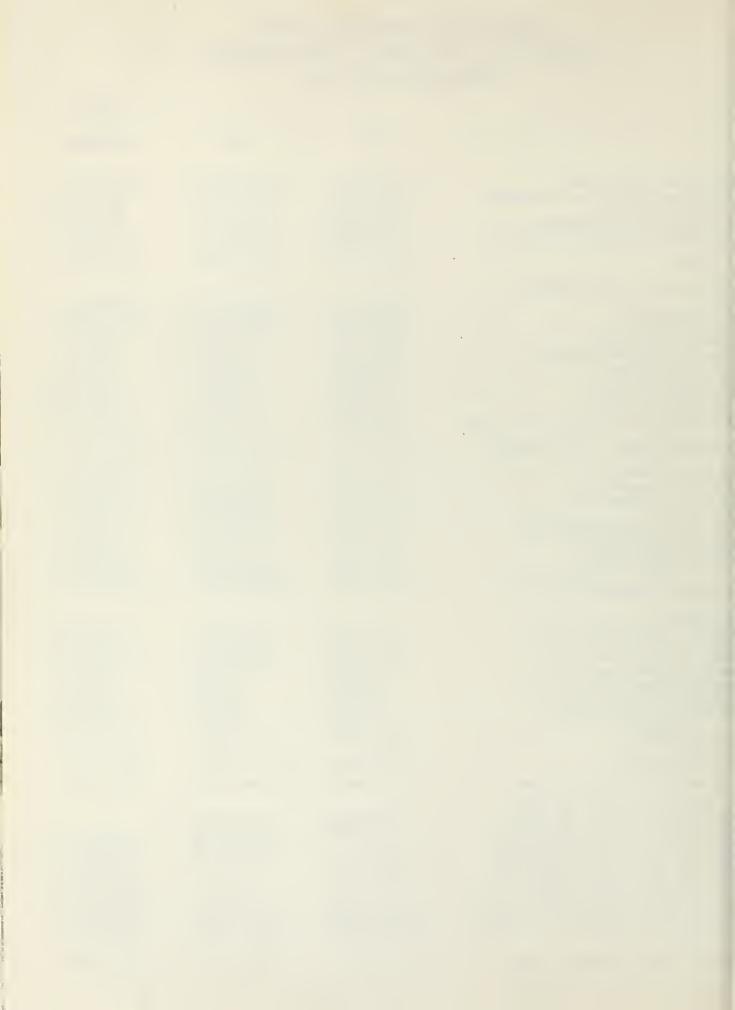


MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

COMPARISON OF NET COST OF SERVICE - TWELVE MONTH PERIOD

CALENDAR YEARS 1980 VS. 1979

			Increase or
	1980	1979	(Decrease)
come:			
Revenue from Transportation Revenue from Other Railway Operations Non-Operating Income Las & Diesel Tax Reimbursement Reimbursement from Outside District	\$66,197,081.31 2,650,449.46 13,622,873.62 478,846.55 3,385,982.00	\$56,727,493.69 2,263,664.94 13,650,718.29 431,431.46 1,968,721.00	\$9,469,587.62 386,784.52 (27,844.67) 47,415.09 1,417,261.00
CAL INCOME	86,335,232.94	75,042,029.38	11,293,203.56
rating Wages and Fringe Benefits: lages [.B.T.A. Pensions locial Security Taxes lorkmen's Compensation uccident and Sickness Insurance locial Insurance luc Cross - Blue Shield Inemployment Insurance Iniform and Work Clothes ringe Benefits Cost Capitalized - Credit	140,574,029.31 21,349,749.00 9,592,494.91 3,441,115.99 438,415.57 694,012.91 14,403,365.53 178,800.00 587,473.40 (7,588,893.56)	129,721,199.07 18,830,410.28 8,409,994.03 2,812,368.22 431,676.61 670,677.04 13,590,030.74 267,362.92 541,660.29 (5,753,121.15)	10,852,830.24 2,519,338.72 1,182,500.88 628,747.77 6,738.96 23,335.87 813,334.79 (88,562.92) 45,813.11 (1,835,772.41)
'AL OPERATING WAGES & FRINGE BENEFITS	183,670,563.06	169,522,258.05	14,148,305.01
laterial and Other Items Injuries and Damages Interest on Unfunded Debt 'uel 'axes (Other than included above) 'ailroad Commuter Subsidy ocal Service Subsidies 'ailroad Commuter Unreimbursed Cost	30,783,585.46 2,666,761.75 16,553,721.41 22,265,512.49 881,530.92 44,870,591.50 1,517,912.23 2,800,000.00	24,755,273.54 2,517,339.30 11,795,983.69 16,208,764.17 864,973.72 37,997,194.24 1,112,287.74 (2,800,000.00)	6,028,311.92 149,422.45 4,757,737.72 6,056,748.32 16,557.20 6,873,397.26 405,624.49 5,600,000.00
'AL OPERATING EXPENSES AND TAXES	306,010,178.82	261,974,074.45	44,036,104.37
nterest on Funded Debt (M.T.A.) Interest on Funded Debt (M.B.T.A.) 'ayment on Funded Debt (M.B.T.A.) 'ayment on Funded Debt (M.B.T.A.) 'ayment on Funded Debt (M.B.T.A.) 'ambridge Subway Rental (M.T.A.) 'fiscellaneous Debits (M.T.A.) 'ank Service Charges (M.B.T.A.)	3,423,191.58 20,047,185.84 2,723,259.28 10,710,000.00 10,308.32 45,691.33 24,000.32	3,686,264.61 19,235,045.67 2,824,259.27 9,331,172.87 5,408.28 30,429.86 49,752.26	(263,073.03) 812,140.17 (100,999.99) 1,378,827.13 4,900.04 15,261.47 (25,751.94)
'AL FIXED CHARGES	36,983,636.67	35,162,332.82	1,821,303.85
'AL CURRENT EXPENSES	342,993,815.49	297,136,407.27	45,857,408.22
OT OF SERVICE IN EXCESS OF INCOME	256,658,582.55	222,094,377.89	34,564,204.66
hap. 161A of G.L. (Sec. 28) - MTA hap. 161A of G.L. (Sec. 28) - MTA hap. 161A of G.L. (Sec. 28) - MBTA hap. 367, Acts of 1978 - MBTA (RR) hap. 393, Acts of 1979 - MBTA (RR) hap. 329, Acts of 1980 - MBTA (RR) hap. 329, Acts of 1980 - MBTA louse Bill No. 1 Pend. Approval - MBTA ederal Operating Assistance - Sec. 5	3,000,000.00 26,524,495.88 2,245,333.00 2,453,941.00 105,851,000.00 29,328,419.00	3,000,000.00 23,840,017.73 1,265,024.75 1,154,667.00 83,345,000.00 27,422,397.00	2,684,478.15 (1,265,024.75) 1,090,666.00 2,453,941.00 (83,345,000.00) 105,851,000.00 1,906,022.00
I. ASSISTANCE	169,403,188.88	140,027,106.48	29,376,082.40
SSESSABLE COST OF SERVICE - LOSS	\$87,255,393.67	\$82,067,271.41	\$5,188,122.26



The balance sheet and statement of long-term debt of the Massachusetts Bay Transportation Authority as of December 31, 1980, and the related statements of revenue and cost of service, reimbursed cost of service, and source of disposition of funds for the fiscal year ended December 31, 1980, together with notes relating to these financial statements, are appended to this report.

Respectfully submitted.

Board of Directors

Massachusetts Bay Transportation Authority

Barry M. Locke

Chairman

Paul E Marns

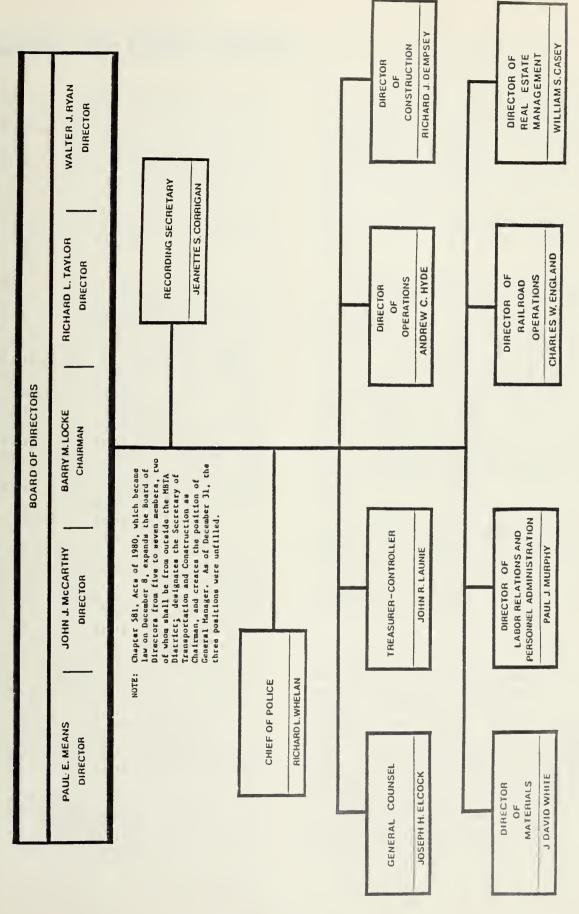
John J McCarthy

Richard L. Taylor

Walter J. Rva



ORGANIZATION CHART





BOARD OF DIRECTORS

BARRY M. LOCKE, Secretary of Transportation and Construction, was appointed interim Chairman June 9, 1980, by Governor Edward J. King, following the resignation of Chairman Robert L. Foster. Mr. Locke became permanent Chairman on December 7, 1980, when the Legislature passed MBTA reorganization and reform legislation, specifying that the Secretary of Transportation and Construction shall be Chairman of the MBTA.

Mr. Locke has extensive high level policy-making and administrative experience In the transportation and energy flelds, having served in the White House Energy Policy Office after four years as Special Assistant to them U.S. Secretary of Transportation John A. Volpe, for whom he had been Press Secretary when Mr. Volpe was Governor of Massachusetts. Before joining Governor King's Cabinet, Mr. Locke was Executive Director of the Bi-State Development Agency, which has jurisdiction over land, water and air travel in the metropolitan St. Louis-Downstate Illinois area. He also operated the mass transit system serving that region.

PAUL E. MEANS, Stoneham, was appointed to the Board by Governor King in 1979. HIs appointment was approved by the 65 cities and towns on the Advisory Board and he was sworn in on March 20. He is a former State Representative, having served on the Committees on Insurance and State Administration and as Chairman on the Subcommittee on Public Records. A member of his town's Charter Commission in 1972, he was elected to the Board of Selectmen for 1973-1975 and was responsible for the transportation system in Stoneham. 1975 to 1978, he was a member of the State Commission on Awarding of Public Contracts.

JOHN J. MCCARTHY, Wakefield, who served on the MBTA Board from 1970 to

January 1978, was reappointed by Governor King on April 27, 1979. He is Executive Secretary and Town Accountant for the Town of Wakefield. In addition to his service with the MBTA, Mr. McCarthy has been President of the Metropolitan Area Planning Council, a member of the MBTA Advisory Board representing Wakefield, and a member of the former State Mass Transportation Commission.

RICHARD L. TAYLOR, Roxbury, was sworn in as a member of the Board on May 18, 1979, following nomination by Governor King and approval by the inner 14 cities and towns on the Advisory Board. Since 1978, he has been Senior Operations Officer for HiPark Development Corporation. A graduate of Boston University, School of Public Communication, in 1971, he was a Rhodes Scholar, Oxford University, from 1971 to 1973. From 1973 to 1977, he completed the four-year master of business administration and juris doctorate program at Harvard Business School and Harvard Law School.

WALTER J. RYAN, Canton, joined the Board on May 18, 1979. Mr. Ryan is business manager of Local 4, Operating Englneers and Chairman of the Committee on Transportation and Energy for the State Labor Council, AFL-CIO.

Under Chapter 581, Acts of 1980, the Massachusetts Legislature added two members to the Board of Directors, both residents of communities outside the MBTA District. On February 9, 1981, Governor King appointed JOHN F. DATOR, Somerset, owner of a real estate and insurance agency in Fall River, and HENRY J. PIECHOTA, Longmeadow, City Auditor/Budget Director for the City of Springfield. Mr. Piechota's nomination was approved by the Advisory Board on February 26, 1981.

DEPARTMENTAL REPORTS EXECUTIVE OFFICE

Governor Edward J. King named Transportation Secretary Barry M. Locke as Interim Chairman and Chief Executive Officer of the Authority in June following the resignation of Robert L. Foster. Chairman Locke initiated a sweeping review of the Authority. Every department was scrutinized, and unnecessary functions, positions, and services were eliminated.

Under Chairman Locke, the Safety Department and Energy Conservation Office, formerly separate entities, were assigned to the Dperations Directorate. Media Relations, Public Affairs and Consumer Information, and Salas and Marketing were reorganized into a new Communications Directorate. And, the Board of Directors established an Duter 65 Communities Advisory Panel, providing a direct link between MBTA decision makers and regular transit users.

The Authority implemented a general fare increase for rapid transit, the first in eleven years, on June 30. The ridership decline was less than the predicted three percent, and overall ridership continued to grow as gasoline prices increased. In spite of a 14 percent increase in commuter rail fares in August, ridership was up 17.7 percent over 1979, which was a record ridership year.

1980 was an especially challenging year for the Public Affairs and Consumer Information Division of the Communications Directorate. Faced with numerous service changes, the Division met the task of keeping the MBTA ridership informed and up to date. Twice as many "special" information pieces were distributed as in 1979. Over six million of these were related to fare and service changes. Another 250,000 dealt with changes in regular schedules.

And, some 200,000 Traveler's Aid brochures were prepared.

The Customer Service Center continues to provide an important day-to-day limbetween the system and its riders. During the year, the Center answered over 410,000 telephone inquiries regarding fares, service, schedules, as well as immediates emergency and future service changes.

The year was a remarkable one for the MBTA Pass Program. The number of particle pating employers grew to approximately 80 pating employers, 50 banks, 10 colleges)) in They were responsible for monthly passes as allow cost and more than \$1,500,000. About 55 employers now offer MBTA passes as a low cost fringe benefit to some 6,000 employees. Some 275 employers have implemented variable work hours program for approximately 86,000 employees in Greater Boston.

The Pass Program reached a majo we milestone with the implementation of the Electronic Passreader Project. Plastic we encoded passes were introduced, and electronic passreaders were installed through out the MBTA rapid transit system. Majo we efforts were undertaken by the Publi minformation and Sales and Marketing Divi and slons to educate passholders about the new system.

Other achievements in 1980 included the registration and processing of 18,00 control of the registration and processing of 18,00 control of the registration and processing of 18,00 control of the registration and 8,000 individuals with special needs for MBTA Haif Fare Photomorphisms of the Photomorphisms of

OPERATIONS DIRECTORATE

"Operation Sail '80", part of the five-month-long celebration of Boston's 350th birthday, highlighted the Operations Directorate's achievements in 1980. Through careful planning and intragency cooperation, the MBTA successfully moved, without incidents, more people for this one event than for any other event in the Authority's history. From May 30, to June 4, MBTA shuttle bus service operated from various points around the city for the viewing of the Tali Ships' entry into Boston.

Another accomplishment of the Operations Directorate was the opening and dedication of the Red Line's new station in Braintree. Also dedicated was the Braintree Yard, honoring Raymond Caddigan, a retired 33-year employee of the MBTA. Braintree Station has shown a steady increase in ridership to about 3,800 a day, and the 1,200-car parking facility is filled daily.

Substantial efforts were made by the operations Directorate in 1980 to make transportation facilities accessible to the elderly and the handicapped. "The Ride," a specialized service, expanded to 29 vehicles which provided 74,400 trips for the handicapped in 1980.

A Suburban Bus Transportation Program, which allows low-density MBTA communities to contract with private carriers for intra-community service was administered by this Department in 1980. Five towns - Lexington, Bedford, Winchester, Natick, and Needham - utilized an MBTA subsidy to institute service in their communities. In a 42-system comparison of similar low-density transportation services in the U.S., five of the MBTA systems ranked in the top fifteen, with Lexington ranked as No. 1.

In early April, Operations Directorate personnel assisted the state and the City of Somerville in an emergency evacuation resulting from the rupture of a

railroad tank car containing noxious fumes. The Directorate not only diverted service around the troubled area, but also assisted the Fire and Police Departments by utilizing MBTA buses to evacuate the slck and the aged from nursing homes in the affected area.

On June 30, a new fare system which doubled rapid transit fares and reintroduced the old MTA tokens, became effective. Key management people were on hand to answer inquiries from the public and to help ease the confusion caused by the changeover. Later in the year, new Electronic Fare Collection passes were implemented throughout the system. The first of its kind in the country, the Electronic Pass Reader eliminates free trips and reduces time-consuming delays.

As a result of a wide variety of energy conservation measures Instituted in 1979-1980, the Authority realized significant gains in reducing energy waste throughout the system. During the first full year of these energy conservation efforts, electric power, which constitutes the major form of energy used by the MBTA, was reduced by 3.7 percent for a savings of \$700,000. Overall, the improvements in energy efficiency saved over \$2 million and resulted in the award of one of the President's Energy Efficiency Awards.

A reorganization of the Office of Safety and the Training Section in 1980 provided a better means of addressing issues pertaining to public safety and occupational hazards. Two hundred fiftytwo Starters and inspectors completed a safety training program which covered surveillance techniques, arrest procedures, and cardiopulmonary resuscitation (CPR). An additional 371 employees were trained and certified in CPR in 1980, bringing the Authority's total to well over 1,000 since the program's inception in 1978. 1980, the Directorate continued to play a major role in presenting the Authority's Transit Safety Awareness Program to

FRO-

children in Boston, Revere, Braintree, and Quincy public and parochlal schools.

In 1980, the Directorate placed ali 70 of the new Blue Line cars into revenue service. The Orange Line maintained 100 percent of its required cars. The Light Rall Vehicle Program (LRV) made significant improvement in the reliability and availability of the fleet. At the beginning of 1980, there were 102 LRV's in the revenue service fleet. By the end of the year, there were 97 cars in the fleet.

Planned maintenance programs for the President's Conference Committee (PCC) streetcars were extremely Ilmited, and in some cases, they were cancelled as a result of budgetary problems. However, by using available manpower and funds, a program was initiated to rehabilitate the PCC "Picture Window" cars. By the close of the year, three cars were completed and seven were in various stages of completion.

The condition of the PCC's, combined with the extremely cold weather during the week of December 21, 1980, resulted in a record low availability of only 22 on December 24-25. This necessitated the removal of the PCC Cars from revenue service on December 25. As replacements, seven LRV's were transferred from the Riverside Carhouse to the Reservoir Shop for service on the Beacon Street Line.

Trackless trolley operations remained relatively stable throughout the year. Of the 50 cars in the revenue serice fleet, approximately 42 were available for dally service.

Significant progress has been achieved in controlling overtime costs. The number of overtime hours expended in 1980 as compared to 1979 were reduced by 36% and the cost of those hours were reduced 30% for a savings of \$2,629,444.

The Transportation Department only achieved a slight decrease in the number

of absence hours - 2.5%. It has dramatically increased the number of suspension hours for discipline purposes by 53.9%.

Another major event in 1980 was the delivery of 127 new buses. Not only distinct these new buses increase vehicle availability, but they also allowed the Authority to sell or scrap many older costlier-to-maintain buses. In additiona \$14 million capital grant was approve by the Urban Mass Transportation Administration for the structural rehabilitation of 84 A.M. General Buses.

In other Operation matters, the Directorate completely rebuilt the overhead power system along Huntington Avenue from Northeastern University to Brigham Circled The entire construction project was completed two months ahead of schedule arounder budget. New trackless trolley lands were installed in the Watertown Yard, and the Orange Line structure tie and timbes replacement program was completed in own season with the installation of over 5,000 ties, a record for the Authority.

Productivity was improved through the full operation of the new Rall Fabrication Facility. Over 57,600 feet of rall was fabricated from the time the building became occupied. Also, through the implementation of a Beneficial Employees Suggestion Program, over 292 employees happerfect attendance in 1980.

Other accomplishments of the Opera tions Directorate were as follows: th updating of 7,400 bus stop signs conform with new public information quide lines, the development of an orderly par ing plan and bus turnaround at Needh Junction, the dissemination of a Uniform Discipline Code to all Operations Dires torate employees, the June 14 closing the Somerville Garage and the transfer all buses to the Charlestown Garage Co plex, extra service and late night servi for special events, celebrations and e planade concerts, and substitute servi along Huntington and Commonwealth Avenu during Green Line reconstruction.

RAILROAD OPERATIONS DIRECTORATE

The Railroad Operations Directorate worked to make service more cost-effective in 1980. Although fares were raised and some routes eliminated, two important routes were extended. The Authority used careful criteria in making the changes, and as a result, ridership increased 17.7 percent from 1979.

With the cooperation of the State of
New Hampshire, rail service was extended
from Lowell to Concord, New Hampshire, on
the New Hampshire Main Line in January.
An extension from South Acton to Gardner
on the Fitchburg Main Line opened the same
month under a service agreement with the
Montachusett Regional Transit Authority.

In September, some mid-day and weekme end trains which had shown very low riderar ship were discontinued. The reductions
were worked out in cooperation with the
Commuter Rail Sub-Committee of the Advisory Board. They affected a very small
portion (less than four percent) of total
train ridership.

Fare increases projected to bring in an additional \$1.6 mlllion to \$1.8 million

annually were initiated in late summer. Fourteen percent increases went into effect on August 10 for one-way and 12-ride tickets and on September 1 for month-ly passes.

The Directorate continued its efforts to upgrade and maintain equipment. new F-40PH locomotives were added to the fleet in late December. In addition, a program to rebuild 32 Budd rall diesel (RDCs) as traller coaches launched. Blds were solicited and components were ordered for the project which is scheduled to be completed in December 1981. If funds become available, the program will be extended to the remaining 61 At the Boston Engine Terminal, freight locomotive maintenance was eilminated so that the facility could be used exclusively for passenger equipment maintenance.

Finally, the Directorate hired a consulting firm to review the MBTA's Operating Agreement with the Boston & Maine Corporation. The present Operating Agreement is due to expire at the end of 1981.

TREASURER - CONTROLLER'S DEPARTMENT

Working with the Operations Directorate, the Treasurer's Department assisted in the successful implementation of the rapid transit and commuter rail fare Rapid transit revenues were increase. projected to increase by more than \$15 million, commuter rail revenues, by \$1.3 million. However, the fare increase and the switch to a token system brought added expenses for the Department, as the Revenue Collection Division was required to spend a considerable amount of overtime dollars to process the increased volume of coins.

In January, Multisystems Inc., began to develop and design a new on-line accounts payable system to speed the processing of vouchers, aid in cash flow management, and provide management with a greatly expanded ability to monitor departmental budgets.

The Capital Audit staff continued to perform high quality pre-audits and final audits of consulting and construction contracts. Early in the year, the internal Audit Division began performing audits that provided operational managers with objective comments and suggestions for improving efficiency and economy.

The Capital Program Control Section continued to improve the management efficiency of capital funds by increasing, from 30 to 41, the number of grants billed to UMTA by Letter of Credit. In addition, the overall productivity of the Section continued to improve despite the increased work load associated with the additional 10 grants received from various agencies during the year.

CONSTRUCTION DIRECTORATE

Nearly \$320 million in grants was awarded by the Federal Urban Mass Transportation Administration (UMTA) in 1980, representing an increase of more than \$31 million over 1979.

Construction contracts, totaling \$227 million, were awarded in 1980, representing an even larger annual growth of \$50 million.

The largest single grant award of \$85 million was targeted for the Red Line Northwest Extension from Harvard Square to Alewife Brook Parkway, while several combined awards totaling \$98 million were granted for the Southwest Corridor Relocation Project.

in addition, nearly \$40 million was earmarked for the purchase of rapid transit cars and buses and modernization of Presidents! Conference Committee (PCC) cars.

The 3.2-mile Red Line Northwest Extension Project, for which total committed federal funds amount to \$350 million, made significant progress during 1980. A \$75 million contract — the largest to date — was awarded for construction of the Alewife Station/Garage Complex. Other major contracts awarded for this project included: Porter Square Station (\$44 million), Power System (\$16 million), and the double track tunnel from Davis Square to Harvey Street (\$32 million).

On the southern extension of the Red Line, the opening of the new Braintree Station/Garage Complex in South Braintree on March 22, 1980, marked the culmination of a four-year, \$53 million project. The combination station and garage provides parking for 1,200 vehicles and rapid transit service for more than 4,500 dally riders.

Construction began on the \$35 million Quincy-Adams Station/Garage complex at

Routes 3 and 128 in South Quincy. Revenue $_{\uparrow \downarrow}$ service is scheduled to begin in 1981.

The Orange Line Relocation Project: the 4.7 mile project to move the Orange at Line to the Shore Line railroad right-of way, is expected to be the largest single s construction project undertaken in Massae S chusetts history. During 1980, nine to demolition, site preparation and utility w relocation contracts, totaling \$62.5 million, were awarded for this \$886 million, of federally-funded project. The project entails a wide range of programs designed to the stimulate economic stability in the neighborhoods through which the rail lines will Some programs that were advanced to during 1980 were the Educational Training St Program, which provides architectural and in engineering experience to local young adults; the anti-vandalism CETA-sponsored program; and Minority Business Enterprise 16 conferences, designed to acquaint minority \$1 businessmen with planned construction activity.

The on-going \$930 million Systemwide property in the station modernization effort, the upgrading and construction of maintenance and vehicle support facilities, plus the power, plant, and commuter rail improvements.

The \$91 million Station Modernization effort reached a significant milestone at year's end with the completion of the design/development phase for nine stations, thus paving the way for construction at two of the stations in 1981. The program involves platform lengthening to accommodate six-car trains and general aesthetic improvements within the station areas.

During the year, the Boston Coilege/ Lake Street Maintenance Facility and a new station on the Commonwealth Avenue Line were completed. Also completed were a new bus garage, wash equipment, and a bus repair building at the Charlestown Maintenance Facility. Construction began for the new Reservoir Carhouse and storage yard.

Under the Power Improvements Program, major accomplishments during 1980 Included: completion of the Everett Power Substation and the South Boston and Lincoln Switching Stations; a \$10 million contract award for five new power substations which, when completed, will produce more efficient 60 hz power, and the initiation of rehabilitation work to improve power production at the Coolidge/Newbury Substation.

Reconstruction of the Green Line's Commonwealth Avenue Branch between Kenmore Station and Boston College was completed in December. In addition, the rehabilitation of the South Huntington Avenue and Heath Street sections of the Arborway Line were completed and work on the Heath Street Loop (trolley turnaround) began.

On the Red Line, engineering started for the major upgrading and safety improvements on the Dorchester Branch. These improvements are scheduled to be undertaken simultaneously with tunnel rehabilitation work between Fields Corner and Ashmont Station. During construction, the Dorchester Branch will be closed. Buses will substitute along the route.

Under the Commuter Rail Improvements Program, major contracts were awarded for rebuilding of track and rehabilitation of signals on the Fitchburg Main Line, as well as track rehabilitation on the Gloucester Branch. Track improvements

were completed on the old Boston to Albany Railroad Line to Framingham and on the Ipswich Branch of the Eastern Route. New MBTA commuter rail layover facilities were put into service at Rockport and Franklin. The facilities provide 480 volt A.C. power to new coaches and new or rebuilt locomotives so that trains do not have to idle when not in service.

The Urban Mass Transportation Administration and the Federal Rallroad Administration contributed \$33 million in 1980 toward the multi-modal South Station Transportation Center for the MBTA commuter and Amtrak intercity trains and intercity and MBTA buses. Construction is scheduled to begin in June 1981 and completed in late 1983.

An interIm bus terminal was completed in Dewey Square for Trallways buses which were forced to move from Park Square due to construction of the new state Transportation Building. Trailways' permanent terminal will be located in the South Station Transportation Center.

In order to effectively control costs and maintain construction schedules, a new computerized control system was implemented and successfully tested in 1980. Initially designed by Directorate personnel, the Cost and Schedule Control System (CASC) is a management information system divided into 10 smaller sub-systems. Each sub-system is designed to support and expedite the daily document-processing functions of Individual construction projects, while contributing to the continued updating and maintenance of a readily available management reporting printout.

1980 CONSTRUCTION CONTRACTS

AWARD	ED	DESCRIPTION	CONTRACTOR	AMOUNT
Jan.	17	Section One Demolition Boston-Southwest Corridor Project	John Mahoney Construction Co., inc.	782,220.00
Jan.	18	Demolition, Alewife Area, Cambridge-Red Line Northwest Extension Project	Jay-Mor Wrecking Co.	35,990.00
Jan.	18	South Station Interlm Bus Terminal, Boston	Patrick F. Walsh & Sons, Inc.	1,051,000.00
Mar.	24	Haul Road, Harvey Street to Rindge Ave. Extension Cambridge-Red Line Northwest Extension Project	G. Conway, Inc.	611,926.56
Mar.	24	Section One Carter School, Demolition and Reconstruc- tion, Southwest Corridor	W.T. Rich Co., Inc.	865,900.0
Apr.	11	Eastern Line Repairs to Rail- road Drawbridge and Approach Trestles, Beverly and Salem	Rev-Lyn Contracting Co.	642,687.0
Apr.	14	Conversion of Existing Wet Pipe Sprinkler System, To a Dry-Pipe Sprinkler System, Cabot Bus Storage Area, Cabot Maintenance Center, So. Boston	Automatic Sprinkler Corp. of America	36,364.0
June	2	Boston Main Interceptor Sewer Protection, Boston-Southwest Corridor Project	Wes Construction Corp.	409,560.0
June	18	Interim Back Bay Station Boston-Southwest Corridor Project	John Mahoney Construction Co., Inc.	866,790.0
June	20	Tunnel, Davis Square to Harvey Street, Cambridge and Somerville-Red Line Northwest Extension Project	<pre>JV: J.F. White Contracting Co., Morrison-Knudsen Co., Inc., Mergentime Corp.</pre>	32,773,027.0
June	20	Alter and Rehabilitate Build- ings and Furnish Miscellaneous Materials for two Sub-Stations- Metropolitan Boston Area.	James Farina Corp.	2,517,000.(
June	20	Commonwealth Ave. Line Track Improvements, Boston	J.F. White Contracting Co.	3,674,280.(
June	25	Section II, Stony Brook Reconstruction (Roxbury Crossing)- Southwest Corridor Project	The Modern Continental Construction Co., Inc.	3,687,190.(

AWARD	ED	DESCRIPTION	CONTRACTOR	AMOUNT
June	26	Replacement of Wood Decking and Support Timber at Northampton & Dover Elevated Stations on the Orange Line	J.M. Cashman, Inc.	164,140.00
June	30	Boston to South Acton Track Rehabilitation on the Fitch- burg Main Line	Atlas Raiiroad Construction	5,362,649.00
Ju ly	15	Removal & Instaliation of Blue Line Train Washer at Orient Heights Carhouse	A.J. Robicheau Construction Co., Inc.	156,695.00
Aug.	6	Braintree Station Security Surveillance Television System	Edward G. Sawyer, Co., Inc.	153,000.00
Aug.	14	Reservoir Station & Upper Yard, Phase I	J.F. White Contracting Co.	5,566,415.00
Aug.	14	Charlestown Light MaIntenance Shops	J.F. White Contracting Co.	4,096,238.00
Aug.	14	Track RehabilItation & Bridge Repairs on the Gloucester Branch from Beverly Junction to Rockport	J.F. White Contracting Co.	5,465,625.00
Sept.	16	Heath Street Loop Reconstruction	The Modern Continental Construction Co., Inc.	557,000.00
Sept.	19	New Materials Warehouse Facility at Everett	W.T. Rich Company, Inc.	352,181.00
Sept.	29	Installation of Heavy Duty Car Truck Hoists at Maln Repair Shop, Everett	A.J. Robicheau Construction Co., Inc.	342,850.00
0ct.	6	Erect Buildings & Furnish MIscellaneous Materiais for 5 Sub-Stations in Metro Boston	James Farina Corp.	10,342,850.00
Oct.	30	Immediate Needs Renovation to Bartlett St. Garage, Boston	W.T. Rich Company, Inc.	979,700.00
Dec.	1	Power Systems & Substations- Red Line Northwest Extension	JV: Lord Electric Co., Inc., Mass Electric Construction Co.	16,471,294.00
Dec.	1	Alewife Station/Garage Tunnel- Red Line Northwest Extension	Perlni Corporation	78,282,984.00
Dec.	5	Reconstruction of Needham Junction Parking Lot	Lawrence-Lynch Corp.	31,150.00
Dec.	11	Systemwide Fire Protection, Dry Standpipe Systems & Tunneis, Boston and Cambridge	B. Snyder & Co., Inc.	1,560,285.00
Dec.	22	New Car Hoisting Facility at the Orient Heights Car House, East Boston	Rich Construction Corp.	498,000.00
De c.	31	Section One, Line Construction Part A-Southwest Corridor Pro- ject, Boston	Schlavone Construction Co.	48,976,540.00
			TOTAL	. 227, 063, 980. 50

1980 FEDERAL GRANTS

PROJECT DESCRIPTION	FEDERAL SHARE	LOCAL	TOTAL
UMTA SE	CTION 3 CAPITAL GRA	NTS	
Rehabilitation 50 PCC Cars Charlestown Bus Garage,	5,075,672	1,268,918	6,344,590
Amendment #2 Track Improvements,	4,551,824	1,137,956	5,689,780
Amendment #2	12,339,232	3,084,808	15,424,040
Modernization of Red Line Cars Power System Improvements,	2,000,000	500,000	2,500,000
Amendment	9,116,000	2,279,000	11,395,000
Everett Maintenance Facility, Amendment #2 Station Modernization ill,	7,401,408	1,850,352	9,251,760
Amendmen† #1	1,486,184	371,546	1,857,730
37 Transit Buses South Quincy Rapid Transit Station,	4,500,000	1,125,000	5,625,000
Amendment #2 Kendall Station,	2,700,000	675,000	3,375,000
Amendment #1 North Shore Transit Blue Line	6,000,000	1,500,000	7,500,000
Engineering Commuter Rail Improvements Program III	2,500,000	625,000	3,125,000
(Signaling) Modernization of South Station	522,368	130,592	652,960
Rapid Transit Station, Amendment #1	9,000,000	2,250,000	11,250,000
Tunnel Rehabilitation,			
Amendment #1	6,607,312	1,651,828	8,259,140)
SUBTOTALS	73,800,000	18,450,000	92,250,000
INTER	STATE TRANSFER GRANT (Section 23)	<u>rs</u>	
Modernization of Red Line Cars Orange Line Relocation,	8,000,000	1,411,764	9,411,764
Amendment #3	77,789,377	13,727,538	91,516,915
Purchase 190 Rapid Transit Cars, Amendment #3	15,823,275	2,792,345	18,615,620
Orange Line Relocation,			
Amendment #2 Midlands/Dorchester Branch Railroad,	20,245,145	3,572,673	23,817,818
Amendment #1 Red Line Northwest Rapid Transit,	3,550,535	626,565	4,177,100
Amendment #4	85,000,000	15,000,000	100,000,000
SUBTOTALS	210,408,332	37,130,885	247,539,217

PROJECT DESCRIPTION	FEDERAL SHARE	LOCAL SHARE	TOTAL
	SECTION 5 CAPITAL GRANT		
	SECTION S CAPITAL GRANT		
56 Transit Buses	6,329,770	1,582,443	7,912,213
	SECTION 5 OPERATING ASSISTAN	NCE	
Commuter Raii Operating			
Assistance	4,530,908	24,904,692	29,435,600
Operating Assistance	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,
Year 1979	22,891,488	190,726,385	213,617,873
SUBTOTALS	27,422,396	215,631,077	243,053,473
	UMTA TECHNICAL STUDIES GRAI	NT	
Axle Stress Study	80,000	-	80,000
Rock Chamber Lining Research Study	20,599	-	20,599
,	i		
SUBTOTALS	100,599	-	100,599
	UMTA MANAGERIAL GRANT		
Training	25,797	8,874	34,671
TOTALS	\$318,086,894	\$272,803,279	\$590,890,173

POLICE DEPARTMENT

On August 19, Chief of Police Richard L. Whelan, former Deputy Director of the Massachusetts Committee on Criminal Justice, succeeded former Chief John V. Dow.

Operation Rainbow, a plainclothes police operation aimed at curbing crimes against passengers, was launched in May with immediate and significant results. Over 100 arrests were made from May to November, and there was a high percentage of court convictions. A joint venture of the MBTA police, the Boston Police Department, and the District Attorney's office, Operation Rainbow utilized undercover policewomen as decoys to lure pickpockets and purse-snatchers who were apprehended by plainclothes policemen as soon as the criminal act was accomplished.

During 1980, an aggressive program of checking transit stations was initiated. Mobile patrol units made random checks as stations, with emphasis on known troubil spots.

Overall, the Department apprehended record number of criminals during 1980. There were 540 arrests, a 55 percent in crease over 1979. Other crime statistics show decreases in some categories and increases in other areas. A crime information computer, installed in March, maddepartment personnel more aware of criminal incidents.

Comparative Statistics foilow:

CRIME	1979	1980	Change
HOMICIDE	0	i	0 to 1
RAPE	2	6	2 to 6
ROBBERY	611	705	+15.4%
ASSAULT	247	312	+26.3%
В & Е	189	173	- 8.5%
LARCENY	1913	2033	+ 6.3%
AUTO THEFT	81	78	- 3.7%

Pickpocketing, which is a large part of the Larceny figure, showed a 12.4 percent decrease, from 1437 in 1979 to 1259 in 1980. Attempted larceny on coin boxes and turnstiles accounted for 514 incidents in 1980, compared with 95 in 1979.

The incidence of crimes committed with a weapon decreased during 1980. Robbery with a gun decreased by 13.7 percent; robbery with a knife decreased by 25.6 percent, and assault with a gun, by 44.4 percent.

A major increase was noted in unarmed robbery, 554 of the 705 robbery incidents. Unarmed robbery incides chaln snatches, which showed a decline after the establishment of Operation Rainbow.

The position of Community Services Officer was established in 1980 to meet with community groups, neighborhood organizations and business institutions to inform transit riders of crime prevention and defense techniques. The Explorer program, which combines the principles of scouting with specific interest in transit and transit policing, was reactivated.

Two police sergeants completed the Command Training Program at Babson College in Wellesley. This three-week program provided a background in communication, management and law enforcement issues. The 1980 "Officer of the Year" award was presented to Patrolman Joseph Mastorilli for his outstanding performance with MBTA Police Force.

MATERIALS DIRECTORATE

The Directorate produced a material cost savings of over \$400,000 in 1980. This was the result of a value analysis program and the Directorate's development of alternate supply sources for material previously procured from a single supplier. In addition, the Directorate's inventory control system went "on line" and a system control center was developed during the year.

The delivery of new cars for two of the Authority's three rapid transit lines also highlighted the year. By year's end, il 70 of the new Blue Line cars and six of the 120 new Orange Line cars had been eceived from the manufacturer, Hawker-Biddeley Canada, Ltd. The estimated value of the cars is \$110 million, \$40 million or the Blue Line cars and \$70 million for the Orange Line cars.

To insure adequate control of the \$4-\$5 million worth of component parts for the new cars, the Everett Storeroom was expanded. In addition, a new storeroom was set up in Waltham to handle inventoried material and modification parts for the Light Rail Vehicles (LRVs).

Under the Minority Business Development Program, the Directorate placed more than \$900,000 worth of business with minority-owned firms.

All materials were acquired for the Automotive Maintenance Department's accelerated Bus Engline Rebuild Program and for the Gearbox Rebuild Program for the Red Line's Cambridge-Dorchester cars, underway at the Cabot Shops.

PERSONNEL DEPARTMENT

Acting as a liaison between the Authority and its employees, the Labor Relations Section of the Personnel Department seeks to maintain fairness and equity while protecting the Authority's management rights and financial well-being. The Section proved remarkably successful in meeting these difficult and sometimes conflicting goals in 1980.

During the year, Labor Relations negotiated changes in seven collective bargalning agreements covering about 1,300 employees. Several unions, in most cases representing small numbers of employees, went to mediation and arbitration when agreements had not been reached by year's end. Two new employee organizations, one representing starters and inspectors and the other unaffiliated foremen, entered into initial agreements with the Authority.

In a set of important long-range developments, Labor Relations and Local 589 went to arbitration on a new Pension Agreement affecting all employees, and the Authority began negotiations with Local 589 and several other unions for new collective bargaining agreements.

The Section established new, equal opportunity, hiring guidelines for bus operators in August. Of every 10 opera-

tors hired, five are to be men, two minority males, and three women. The guidelines were applied to a list of 93 potential operators (240 white males, 26 minority males, and 425 women) who passed a screening test earlier in the year. addition, eligibility lists for various job classifications were established to promotional, competitive, written examinations.

The Department of Public Utilities in an effort to ensure passenger safety handed down a ruling limiting the working hours of all motormen and operators crapid translt and surface rail lines. These employees may not work more than hours within a 24-hour period, 44 hours a 72-hour period, or 60 hours in a sevenday week.

The Authority's cilnic conduct? 6,032 physical examinations during the year. Of these, 4,733 were related regular annual examinations and Worker Compensation cases. Another 1,299 were connected with the pre-employment screeding process. And 1,305 came from outsil referrals in special compensation cases.

Worker's Compensation claims contilued to escalate. The following tableshows the claims incidence and the weeks benefit rate from 1977 through 1980:

WEEKLY BENEELT DATE

		MCENTI DE	NEFTI RAIL
YEAR	NUMBER OF CLAIMS	(Jan.)	(Oct. 1)
1977	2,376	\$140.00	\$150.00
1978	2,413	\$150.00	\$211.37
1979	2,395	\$211.37	\$227.31
1980	2,464	\$227.31	\$245.48

Through the Position Vacancy Notice Program, the Personnel Services Section kept employees aware of job openings within the Authority, encouraging them to make better utilization of their training and skills. This Section also conducted numerous contract analyses and restructured several union wage schedules at a substantial financial savings to the Authority. Design-services proposals for the Organization Analysis and Development Study and an Executive Evaluation and Compensation System were also solicited.

For several years, the Personnel Department has been the Authority's representative on several training and

development committees. As a result of these affiliations, the Authority obtained standardized training programs for bus drivers and mechanics. The former was implemented last July, and the latter was turned over to the Automotive Maintenance Section.

The Employee Services Section continued to provide counseling for employees and their families suffering from alcoholic, drug, or behavioral problems. During 1980, 110 new clients enrolled in the program. Training sessions were held for supervisory and management employees at various work locations to assist them with similar problems.

REAL ESTATE MANAGEMENT DEPARTMENT

The Marketing Division of the Real Estate Management Department accomplished goals during 1980, such as: renegotiation of billboard rental rates, resulting in a 33 percent increase; preparation of bid specifications for a transit ladvertising contract that quarantees a minimum of \$1 million per year to the Authority which is an increase of \$700,000 annually over previous contracts; review and update of utility license fees for all MBTA property; review and update of expired leases and rental rates; and creation of a vendor-identification program for all authorized vendors on Authority property.

The Right-of-Way Division acquired a significant number of properties required by the Southwest Corridor Project which recessitated the relocation of several

families and businesses. The Division also began work on property acquisition and relocation required by the Lowell Commuter Rail Program and other construction programs.

Division The Land Management praised 264,000 square feet of waterfront land at the South Boston Power Station. The Division also informed all residents and abutters along the Fitchburg Main Line and the Gloucester/Ipswich Branch about the private grade crossings that will be repaired and improved by the Commuter Rail Improvement Project. In late 1980, the Land Management staff developed plans to relocate the Clinic/Worker's Compensation from 45 High Street to 21 Arlington Avenue, Charlestown, and also planned space allocation for the MBTA in the new State Transportation Building in Park Square.

LAW DEPARTMENT

As the morass of federal, state and local regulations continued to grow in 1980, the Law Department was often called upon to assist the Authority's various departments in Interpreting and applying a wide variety of rules. Regulations and laws relating to the environment, land use, consumer protection, discrimination, public hearings, construction, and mass transit are among those which affect the Authority.

The Law Department has been highly successful In preventing delays on construction projects due to legal challenges. The Department argued successfully against an injunction that would have postponed the opening of the Red Line's new Braintree Station until a new street is built. Although the Harvard Square to Alewife Red Line extension has been challenged for alleged noise pollution, construction has continued. The case remains to be settled.

On yet another construction matter, the low bidder, who was found to have inadequate minority participation, challenged a 1976 contract award to the second lowest bidder for work on the South Cove Tunnel Project. Although the case is still awaiting trial on the merits, the Federal Court's preliminary findings were against the Authority. The court ruled that there was an insufficient finding of past unlawful discrimination against minority bidders to justify an award to the second bidder but indicated that the unsuccessful bidder's damages should be restricted to bid preparation costs.

Community groups and the MBTA Advisory Board brought suit to delay fare increases ordered by the AuthorIty in the summer of 1980. Argued on environmental grounds, the suit failed to prevent the increases.

In two additional suits against the Authority, the Advisory Board challenged

the Executive Orders of 1979 and 1980 which kept the system operating after Advisory Board-approved funds ran out. The Court held for the Advisory Board in the 1980 case but in the 1979 case held that the Legislature ratified the Governor's action and so denied the Advisory Board relief for their 1979 assessments.

Following the Supreme Judicial Court's order closing down the MBTA on December 6, the General Court enacted Chapter 581 of the Acts of 1980. Under the Act, the state assumed three-fourths of the costs of operating the system through the end of the year, with the cities and towns paying the remainder. The 28 unions representing the Authority! employees filed sult challenging the "management rights" provisions of the Act.

In other labor matters, the Law Despartment defended the Authority in dissocial crimnation suits and suits brought by dissocharged employees. The Authority's action challenging an arbitrator's decision that Chapter 405 of the Acts of 1978 violates the labor protection guarantee section of the Urban Mass Transportation Act has been brought before the state Supreme Judicial Court. Local 589's action seeking to uphold the arbitration award will proceed in U. S. Distric Court.

Working with the Special Needs Of 14 fice, the Department helped to develop a 30-year plan for making the system handicapped assessible and for hiring morely handicapped employees. While the Section's 504 Transition Plan is being implemented Aug the Authority will offer transportation services to the handicapped through "The Ride", a program to be operated by either lay Them, Inc., or by Local 589 employees de-place pending on a decision of the court. The Authority's efforts in this regard take or a added significance in light of the recentifier ly approved state constitutional amendmenting prohibiting discrimination against the handicapped.

The Claims Section of the Department handled a voluminous caseload in 1980. Three thousand eight hundred twenty-two claims, 1,311 Superior Court suits, and 2,974 municipal and district court suits were pending at the end of the year. The

estimated value of pending claims and suits for injuries and damages as of December 31 totalled \$16,406,385. During the year, \$2,666,764 was paid for damages and injuries.

COMPREHENSIVE PROGRAM FOR MASS TRANSPORTATION

The MBTA must comply with planning nd programming requirements established y State and Federal Law.

At the state level, the Executive Of-ice of Transportation and Construction EOTC) is responsible for the Comprehenive Program for Mass Transportation in coordance with Chapter 161A, Section 5(g) nd (h) of the General Laws of the Commonealth, as amended by Section 7 of Chapter 140, Acts of 1973.

The statute states that the Authoriy's capital investment program and plans
or mass transportation "shall be develped in consultation and cooperation with
he Authority, and in consultation with
he Executive Office of Communities and
evelopment, the Metropolitan Area Planing Council, and such other agencies of
he Commonwealth or the Federal Government
s may be concerned with said program and
lans." The program and any revisions are
ubject to the approval of the Advisory
pard.

The program must include a long-range plan for the construction, reconstruction, or alteration of mass transportation facilities within the Authority's district; a schedule for the implementation of the program; and comprehensive financial estimates of cost and revenues.

The current Program for Mass Transportation remains that approved by the Advisory Board on December 21, 1978.

To comply with federal requirements, the MBTA, as one of the six agencies constituting the Metropolitan Planning Organization (MPO), cooperated with those other agencies in the preparation of several required certification documents: The Prospectus, the Unified Planning Work Program, the Transportation Plan (Long-Range Element and Transportation Systems Management Element), and the Transportation Improvement Program. All of these documents were revised and approved by the MPO during 1980.

1980 LEGISLATION

The most important legislation affecting the MBTA was the reorganization bill (Chapter 581, Acts of 1980) passed at a Special Session of the General Court and signed by Governor Edward J. King on December 7, following a one-day, system-wide shutdown. The legislation provided a \$41 million appropriation for operations through the end of the year. It also provided for the strongest management reforms ever achieved in the MBTA's history.

The law further stipulates that:

- -- The Board of Directors shall appoint a General Manager who shall be approved by the Advisory Board.
- -- The Board of Directors shall be expanded from five to seven members with two of the seven to be from outside the MBTA District and the Secretary of the Executive Office of Transportation and Construction to be Chairman of the Board.
- -- The outer 65 cities and towns shall have the option to contract for service with private carriers.
- -- A Designee of the Governor shall serve on the Advisory Board and have a vote equal to that of the largest community (Boston).
- -- Management shall have the inherent, non-negotiable right to direct, appoint, assign, employ and promote employees; plan and determine levels of service; direct, supervise, control and evaluate departments and programs; ascribe duties and standards of productivity for all positions; determine levels of staffing and training; determine whether goods or services should be made, leased, contracted for, or purchased; assign overtime; hire part-time employees.

- -- The Authority is prohibited from entering into any agreements to allow pend sion benefit payments to include overtime earnings.
- -- The Authority is prohibited from entering into a contract which provides the for automatic cost-of-living salary add justments.
- -- The Authority is no longer reconstruction of the desired to provide a doorman (guard) for every two cars of a passenger train.
- -- The Authority shail establish productivity and conduct committee for each bargaining unit, consisting of man agement and labor, which shall recommen the establishment of standards of productivity and conduct of employees.
- -- The voting formula used by the MBTA Advisory Board shall be changed to give the smaller communities in the MBT bistrict more influence and greater weights in the voting.
- -- No new employees shall be hire to unless there exists a critical need a so certified by the Secretary of Administra of tion and Finance.
- -- The four percent cap on the operating budget shall remain in effect for the next two years.

Other state laws affecting the Authority included an act relative to the length of motor buses; an act regarding notes issued by the Commonwealth to finance payments to the MBTA; an act granting easements and land interests to the Authority for the construction of the Red Line Northwest Extension; and an actimiting state and local taxation and expenditures, popularly known as Proposition 2-1/2.

1981 LEGISLATIVE PROGRAM

Approved by the Authority's Board of Directors, the following legislative proposals were filed for consideration by the 1981 General Court:

I. AN ACT authorizing and directing the Metropolitan District Commission (MDC) to convey certain parcels of land in Somerville and Medford to the MBTA and to grant permanent surface and subsurface assements for drainage purposes.

This legislation is necessary In order to comply with the agreement between the MDC and the MBTA, dated December 8, 1972, and with Article 97 of the Amendments to the Constitution, which requires egislation to transfer any interest in tark land from one governmental agency to mother.

 AN ACT further regulating smoking n public conveyances and certain premses.

The 1968 statute contains language hat a person must be requested to cease moking. This led to many confrontations between an alleged offender and the poice. The proposed legislation deletes he language requiring the request.

3. AN ACT authorizing and directing he MDC to convey to the MBTA certain parels of land in Boston for construction of he Southwest Corridor Project.

This involves two MDC park properties nich are necessary for construction of he Southwest Corridor Project. Article 7 of the Amendments to the Constitution equires legislation.

4. AN ACT amending the law relative of the use and occupation of certain land a Campridge by the MBTA.

Chapter 298 of the Acts of 1976 reuires the MBTA to vacate parcel 18 of the ormer Eliot-Bennett Street Yards no later than February 1979. Sald Chapter also requires a certain rent to be paid by the Authority for parcel 18. The proposed legislation, if adopted, would extend the occupation time on parcel 18 to February 1982 and would delete the rental requirement.

5. AN ACT relating to the issuance of refunding bonds by the Boston Metropol-itan District.

This legislation would authorize Trustees of the District to issue and sell refunding bonds notwithstanding present Ilmitations imposed by law.

AN ACT relative to parking violations on MBTA property.

This proposal would give MBTA police officers the power to tag for parking violations on MBTA properties.

 7_{\bullet} AN ACT relative to the removal of motor vehicles impeding the operation of the MBTA.

This legislation specifically authorizes the MBTA to tow illegally parked vehicles and to collect any fines or costs thereof.

8. AN ACT providing that procedure against certain violators of motor vehicle laws be extended to include the MBTA Potlice Department.

This would allow MBTA police to cite motor vehicle driving infractions.

9. AN ACT relative to Boston grant-Ing certain interests in land under Boston Common to the MBTA in order to extend the subway platforms at Park Street Station on the Red Line.

Article 97 of the Amendments to the Constitution requires legislation to transfer any interest in park land from one governmental agency to another.

10. AN ACT amending the law relative to conduct in public conveyances.

This proposal would amend existing law to include noise, especially radio noise.

11. AN ACT relative to the prequalification of contractors by the MBTA.

The Authority now prequalifies contractors as a matter of policy. Since the Authority is now under the general bid statute applicable to other agencies, it should come under a similar prequalification statute.

12. AN ACT authorizing and directing Boston, through its Parks and Recreation Commission, to convey to the MBTA, certain interests in parcels of land in the City for the purpose of constructing certain portions of the Massachusetts Bay Transportation Authority's Southwest Corridor Project.

This legislation contains parcels of park land owned by Boston and required for the Southwest Corridor Project. Article 97 of the Amendments to the Constitution requires legislation.

13. AN ACT relative to the reimbursement of fuel and special fuel excises to those providing mass transportation services.

Adoption of this proposal would provide 100 percent reimbursement for fuel excises not currently reimbursed.

14. AN ACT relative to the consumption of alcoholic beverages in a facility or conveyance of the MBTA.

This proposal is aimed at the safety of passengers, especially during times when large numbers are attending certain events.

15. AN ACT providing for the acquisition and management of a Southwest Corridor Park by the Department of Environmental Management.

Park properties in the Southwest Conridor have recently been turned over the Department of Environmental Management by the Department of Public Works. Legislation is needed to allow D.E.M. to open ate within the City of Boston.

16. AN ACT relative to income the credits for employers providing all part of certain expenses for public transportation.

This proposal would allow a tax cred: to an employer in an amount equal to percent of the actual amount contribut toward commuter rail tickets or prepase passes purchased by an employee.

17. AN ACT relative to the fascharged pupils using the facilities of the MBTA.

This would require the Board of Direstors to fix a pupil's fare not to exceed one-fifth of the adult cash fare and would eliminate the present transfer systematic which is widely abused.

18. AN ACT authorizing the MBTA develop and lease its real property no otherwise required for transportation purposes.

This proposal seeks to allow the A4 thority to develop its real estate for commercial and other uses and authorizathe leasing of real estate and air rights

19. AN ACT relative to claims again the MBTA.

This proposal would impose a \$100,0 limit on claims against the Authorit' This is the same amount now applicable the Commonwealth and cities and towns under recently enacted legislation.

20. AN ACT relative to hiring f certain positions by the MBTA.

This would prohibit the Authority fr hiring certain persons as operators, co lectors or guards and would allow the Authority to receive criminal offender in formation.

WHERE THE RIDERS ARE

Revenue from transportation - the rider's fare - pays for about one-fourth of the operating costs of the Massachusetts Bay Transportation Authority.

The tables below show the revenue from the various types of transportation the MBTA perates on the surface and on rails. Revenue to Rallroad Operations is not included in the T) total Transportation Revenues because this (T) service is operated by the Boston & Maine corporation and these revenues are included as a reduction in the Rallroad contract costs. The streetcar and bus revenue figures from each "rating station" - the garage where bus and threetcar operators pick their route on the basis of their seniority rating - give a further Appreakdown of where people use public transportation.

1000 DEVENUE EDOM TRANSPORTATION

	1980 REVENUE FROM	TRANSPORTATION			
APID TRANSIT					
range Line (Oak Grove-Fore	est Hills)		\$ 9,328,784		
lue Line (Bowdoin-Wonderla			2,297,386		
ed Line (Harvard/Brattle-	Ashmont)		9,353,850		
ed Line (South Shore Exter	nsion to Braintree)		4,000,511		
reen Line Central Subway	(Kenmore-Lechmere)		9,692,429		
Total Rapid	TransIt Lines		\$34,672,960		
1					
URFACE LINES					
treetcar (Green Line: Ri	verside, Beacon, Arboi	-way			
Commonwealth, Ma	attapan-Ashmont)		\$ 4,727,378		
rackless Trolley (Cambrid	ge, Belmont, Watertow	ר)	1,271,377		
us (172 Routes)			25,110,259		
Total Surfac	e Lines		\$31,109,014		
ISCELLANEOUS			\$ 407,639		
chooi Ticket Sales			7,468		
hartered Bus	I		\$ 415,107		
Total Miscel	laneous				
TOTAL TRANSP	ORTATION REVENUE		\$66,197,081		
Streetcar Rever	nue	Bus Revenu			
by Rating Stati	ons	by Rating Sta	by Rating Stations		
leasausia Olympaida	\$ 4,339,367	Cabot-Albany, Boston	\$ 8,910,503		
leservoir-Riverside	388,011	Arborway, Boston	4,369,918		
.rborway-Mattapan	380,011	Somerville and			
OTAL STREETCAR REVENUE	\$ 4,727,378	Arlington Heights	2,540,252		
OTAL STREET CAR REVENUE	3 4,727,370	Salem Street, Medford			
Revenue to Railroad C	nerations	Charlestown; Eagle			
Vende 10 valling	,per a 1 10113	Street, East Boston	5,757,015		
orth Service	\$ 7,160,275	Lynn	1,709,529		
outh Service	4,393,409	Quincy	1,823,042		
33.7733	.,,				
OTAL STREETCAR REVENUE	\$11,553,684	TOTAL BUS REVENUE	\$25,110,259		
1					

M B T A ASSESMENT PROCEDURES

A question frequently heard from our customers is "how is my town's MBTA assessment determined?" All 79 citles and towns in the MBTA district pay a share of the MBTA's yearl deficit or net cost of service. The assessment formulas for sharing the deficit were originally spelled out in state legislation passed in 1964 when the old MTA district serving 14 cities and towns, was enlarged to the present regional transportation district and renamed the MBTA. The formulas have been amended by the legislature from time to time in an effort to make the assessment more fair and equitable.

The legislation defines two basic types of MBTA service, "express service" and "local service". Express service refers to rapid transit service on controlled rights of ways while local service refers to MBTA buses, trackless trolleys and streetcars in local streets. The net cost of providing each of these types of service is calculated separately and allocated by a different formula.

type of service	portion of deficit	who pays	basis for assessment
EXPRESS	75%	all 79 cities & towns	number of commuters
	25%	cities & towns with rapid transit & R.R.	boarding counts (ex- cept new stations)
LOCAL	50%	65 cities & towns 14 cities & towns	population (1980 preliminary U.S. Census)
	50%	cities & towns with bus service	share of losses sustained locally

EXPRESS SERVICE

Legislation has divided the assessment for the cost of express service into two parts a 75% portion, and a 25% portion, each distributed in a different fashion.

The 75% portion of the net cost of express service is shared by all 79 cities and town in the MBTA, based on the number of "commuters" living in each municipality. The number of commuters in each city and town was determined from the 1980 Federal Census data an included all people who traveled outside their town to their place of work, whether the used public transportation or not. In the case of the City of Boston, the number of commuters was established so that Boston would be responsible for not less than 30% of this 75% portion.

The remaining 25% of the net cost of express service is shared only by those cities and towns that have one or more express service stations. This part of the assessment is proportional to the number of passengers boarding the rapid transit lines at stations is each community. Each year counts are taken to determine the number of passengers boarding at each station and within each town. However, in 1973, the legislature amended the assessment procedure to exclude from the boarding counts passengers boarding at new rapid

transit stations opened after July 1973. This amendment means that a new station in a community will not result in an increase in its assessment for the 25% portion of express service costs.

LOCAL SERVICE

Local service refers to buses, trackless trolleys, and streetcars operating on local streets. As in express service, the formula for assigning the local service deficit is divided into two parts, in this case two equal or 50% portions. Half of the local service deficit is allocated on the basis of population as determined by the most recent Federal Census (1980); but on the weight of 14 Cities and Towns and 65 Cities and Towns independently. The other 50% of the deficit from local service operations is shared by those cities and towns that have such service, and is based on the proportion of losses incurred in each city or town.

To determine the operating loss incurred in each community, costs are first identified with a mode of service--bus, trackless trolley and streetcar. All direct costs are identified directly with the appropriate mode, and indirect costs are allocated to modes largely based upon the direct charges to each mode each month. Costs by mode are then allocated to specific routes by means of one of six bases depending upon the type of expense involved. Direct costs of operation and maintenance of each rating station (depot), are allocated only to routes emanating from that rating station. For example, costs of operating and maintaining routes from the Quincy Garage are allocated only to the routes in the Quincy Rating Station.

Farebox revenue is sampled on each route four times yearly, and the difference between operating cost and annual revenue determines the yearly profit or loss for each route. This profit or loss is allocated to each city or town on the route, on the basis of mileage. If a town elects to have no local service, buses then make no stops in that town, and the profit or loss from routes passing though that town is distributed among the other towns on the route. For all citles and towns with local MBTA service, the losses and profits from the routes in the community are totaled. Half of the MBTA's local service assessment is then based on the percentage of local serice operating losses incurred in each municipality.

As an example of local service assessment, consider a six-mile long bus route, with four miles In Town A and two miles in Town B. Assume that the operating cost for the route was \$100,000 a year. Assume also that farebox revenue on the route was \$40,000 a year. The operating deficit would be \$60,000 a year, the difference between operating cost and revenue. Half of this \$60,000 deficit (\$30,000) would be allocated among the 14 Clties and Towns and the 65 Clties and Towns on the basis of population, and half would be allocated to Towns A and B. Town A would have to pay \$20,000 and Town B would be assessed \$10,000 because the bus route operated twice as many miles In Town A as in Town B.

OBJECTIVES

The MBTA assessment procedures can be summed up by pointing out two objectives in the formulas. The first objective is to recognize that the 79 cities and towns of the MBTA District comprise one regional transportation district, that all municipalities benefit by the system, and, therefore, all must share some of the deficit. The second objective is to assess a greater portion of the cost of operating the MBTA on those cities and towns that get a greater degree of service. To relieve the burden on local governments, in recent years the state has begun to pay for part of the MBTA deficit. The Federal government is also providing operating subsidies for mass transit under legislation enacted in 1974.

THE PUBLIC TRANSPORTATION DEFICIT: A BRIEF HISTORY

Since July 1, 1918, public policy in Massachusetts has been that the transportation network in Greater Boston Is a public service, benefiting Individuals, businesses and government.

That public policy began when five public trustees began operating the Boston Elevated Railway under the lease conditions of the Public Control Act, passed by the Legislature on May 22, 1918. This was six years after the Boston Elevated Railway Co. reported its first deficit of \$492,000. In 1913, the company lost \$496,000; there were small surpluses in 1914, 1915, and 1916, but in 1917 there was a loss of \$118,000. In the first haif of 1918, when "The El" was still under private control, losses amounted to \$572,000 and maintenance was being deferred while the company awaited public takeover. Consequently, a large public investment had to be made and the deficit for the first 12 months of public control was \$3.1 million.

In 54 of the 62 years since the 1918 Public Control Act, public transportation has incurred a deficit. The eight years of surplus were 1922, 1923, 1925, 1927,

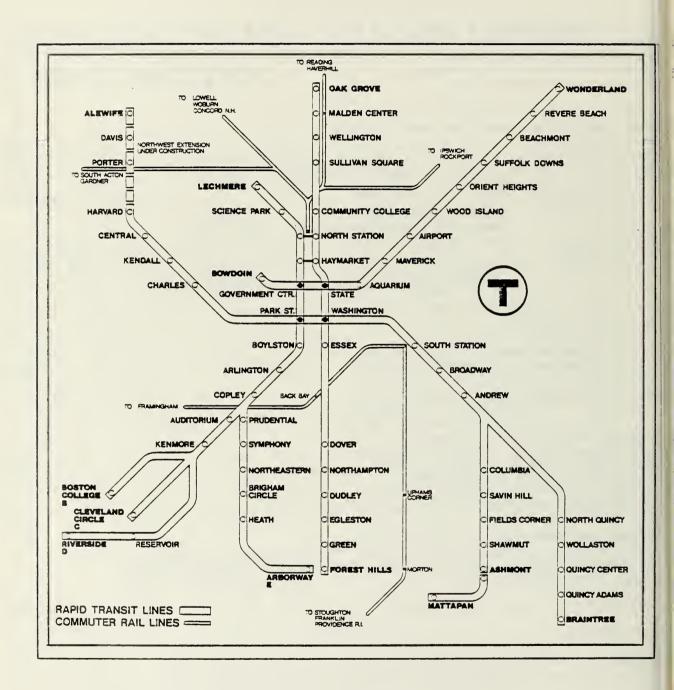
1928, 1929, 1942 and 1943. The surplus was never more than \$1.9 million. The Metropolitan Transit Authority (MTA), comprising 14 cities and towns, ran the system from 1948 through August 3, 1964. In the Metropolitan Transit Authority \$2.8 million to \$2.1 million, assessable on the communities. The Massachusetts Bay Transportation Authority (MBTA), comprising 70 cities and towns, is the successor of the MTA. Its net cost of service is assessed on the 79 member communities.

Rising operating expenses, especialli wage and fuel costs, are directly attributable to inflation. The spiraling cost continue to far outdistance revenue frofares paid by increased numbers of passengers.

The sources of funding for publi transit, passenger revenue, local taxa tion, and state aid, were expanded to in clude the Federal Government with the passage of the Urban Mass Transportatic Act of 1974. In 1977, the Authority became eligible for additional assistance in the funding of commuter rail operations For the year ending December 31, 1980, the Authority received \$29,328,419 in Federa Operating Grants.

1980 STATISTICS

Population of 79 Communities in (T) District	
(1980 U.S. Census-Preliminary)	2,608,638
Number of Bus Routes Number of Streetcar Routes	172
Number of Rapid Transit Routes	5
Number of Trackless Trolley Routes	4
Number of Commuter Rail Routes	10
Buses	
Streetcars (165) and Light Rail Vehlcles (126)	1,081
Rapid Transit Cars	380
Trackless Trolleys	50
Commuter Rail Vehicles: 43 Locomotives: 234 Coaches (59 leased)	277
Yeekday Passengers	564,500
Commuter Rail (Actual) 35,500	20,7200
Basic (T) System (Estimated) 529,000	
: \nnua! Passengers	168,609,015
Commuter Rail (Actual) 9,339,015	100,000,010
Basic (T) System (Estimated) 158,270,000	
Rapid Transit Stations, including Riverside & Mattapan Lines	79
Commuter Rail Stations	89
Illes of Track (One Way) in Subway	15
Hiles of Track (One Way) on Bridges, Elevated or Surface	48.2
Rapid Transit Route Miles (One Way)	42.3
Red Line: Harvard/Brattle-Ashmont, 9.6;	
Harvard/Brattle-Braintree, 15.0	
Orange Line: Forest Hills-Oak Grove, 10.9	
Blue Line: Bowdoln-Wonderland, 6.8 apid Transit Route Miles Under Construction (One Way)	8.4
Red Line Northwest Extension, 3.7;	
Southwest Corridor Orange Line Relocation, 4.7	
'roposed Rapid Transit Route Miles (One Way) - Blue Line Extension to Lynn	4.5
treetcar Route Miles (One Way)	35.1
Riverside-North Station, 12.5; Arborway-Park, 5.5; Lake Street-Lechmere,	
via Commonwealth Ave., 8.0; Cleveland Circle-Lechmere, via Beacon Street,	
ŏ.6; Ashmont-Mattapan, 2.5	
rackless Trolley Route Miles (One Way)	15.75
A SOLITON ASSESSMENT OF ASSESS	710
us Route Miles	710
ommuter Rail Route Miles (One Way)	357
North Station: to Gardner, 65: to Concord, NH, 73; to Woburn, 10;	
to Haverhill, 33; to Ipswich, 28; to Rockport, 35.	
South Station: to Framingham, 22; to Franklin, 28;	
South Station: to Framingham, 22; to Franklin, 28; to Stoughton, 19; to Providence, 44.	
	5.748
mp loyees	30
ollective Bargaining Units	



PART II

FINANCIAL STATEMENTS

DECEMBER 31, 1980 AND 1979

The Authority's financial statements were audited by Arthur Andersen & Co., independent public accountants, and their report is included with the following financial statements:

- Balance Sheet December 31, 1980 and 1979
- Statement of Revenue and Cost of Service for the Years Ended December 31, 1980 and 1979
- Statement of Unreimbursed Cost of Service for the Years Ended December 31, 1980 and 1979
- Statement of Changes in Financial Position for the Years Ended December 31, 1980 and 1979
- Statement of Bonds Payable December 1980 and 1979
- Notes to Financial Statements December 31, 1980 and 1979

Difference in Financial Presentation

The audited financial statements historically reflect a different amount for "Cost of Service in Excess of Revenue" than is shown on the Authority's "Statement of Net Cost of Service" due to different methods of accounting for certain costs and revenues. The audited statements include in cost of service certain non-cash expenditures such as amortization and depreciation (computed based on the estimated useful lives of the assets) and interest accrued on Federal loans and exclude from operating revenue reimbursements from the state and communities outside the MBTA district. The "Net Cost of Service Statement" includes principal payments on debt as an expense in lieu of depreciation and includes certain reimbursements in income.

The two amounts are reconciled as follows:

THE ENG AMERICA GIV ISSUELIES GO ISITONO.	(\$000 (Omitted)
	1980	1979
"Cost of Service in Excess of Revenue" per Authority's "Statement of Net Cost of Service"	\$(256,659)	\$(222,094)
Interest on the Federal Loans not currently assessable, net of property management income and expenses (See Note 9)	(2,076)	(3,084)
Reimbursement for contracted passenger services outside the district, carried by the MBTA as an income item to reduce the amount assessable to other cities and towns	(3,386)	(1,969)
Gasoline and fuel taxes reimbursed by the state carried by MBTA as income	(479)	(431)
The amount that depreciation and amortization expense exceeded bond payments during the year (See Note 1)	(14,414)	(13,948)
Commuter rail labor costs incurred in 1978 and 1979 but not funded by the Advisory Board until 1980	2,800	(2,800)
Provision for Light Rail Vehicles (This is an additional charge to Cost of Service for the loss of eight Light Rail Vehicles discussed in Note 8)		(2,431)
"Cost of Service in Excess of Revenue" per Authority's Audited Statement	\$(274,214)	\$(246,757)

ARTHUR ANDERSEN & Co. BOSTON, MASSACHUSETTS

To the Board of Directors of

Massachusetts Bay Transportation Authority:

We have examined the balance sheet and statement of bonds payable of the MASSACHUSETTS BAY TRANSPORTATION AUTHORITY (a political subdivision of the Commonwealth of Massachusetts) as of December 31, 1980, and 1979, and the related statements of revenue and cost of service, unreimbursed cost of service, and changes in financial position for the years then ended. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial position of the Massachusetts Bay Transportation Authority as of December 31, 1980, and 1979, and the results of its operations and the changes in its financial position for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

arthur andresen & Co.

Boston, Massachusetts,

March 18, 1981.

BALANCE SHEET - DECEMBER 31, 1980 AND 1979

A S S E T S

(\$000 Omitted)

	1980	<u>1979</u>
TRANSPORTATION PROPERTY, at cost (Note 7): Transportation property in service Less - Reserve for depreciation Construction in progress (Note 7) Property held for expansion (Note 9)	\$ 993,229 210,494 \$ 782,735 428,671 20,601	\$ 871,500 186,719 \$ 684,781 301,899 22,454
	\$1,232,007	\$1,009,134
SPECIAL FUNDS, consisting of Cash and Certificates of Deposit:		J. D. J. C.
Construction funds Federal grants and other special funds	\$ 20,570	\$ 47,602
(Notes 1, 7 and 8)	\$ 62,631	\$ 82,386 \(\)
CURRENT ASSETS:		
Cash Temporary cash investments Accounts receivable -	\$ 7,726 21,300	\$ 2,122 14,900
Commonwealth of Massachusetts (Notes 1, 2 and 3) Federal Department of Transportation	184,630	174,591
(Notes 4 and 5) Other Materials and supplies, at average cost	6,511 9,443 15,674	27,443 7,857 13,334
Prepaid expenses	1,338 \$ 246,622	1,19C \$ 241,438 to
	y 210,022	
DEFERRED CHARGES	\$ 10,515	\$ 11,789
	\$1,551,775	\$1,344,747

BALANCE SHEET - DECEMBER 31, 1980 AND 1979

LIABILITIES

		(\$000 Om:	Ltte	d)
		1980		1979
NG-TERM DEBT, exclusive of current maturities: Bonds payable (See Separate Statement) Loans payable to Federal Department of Transportation, including accrued interest of \$15,109,597 in 1980 and \$14,778,811 in 1979	\$	448,282	\$	431,504
(Note 9)		52,135		57,639
	\$	500,417	\$	489,143
REIMBURSED COST OF SERVICE (NOTE 1)	\$	(13,094)	\$	(16,806)
CRRENT LIABILITIES: Current maturities of bonds payable (See Separate Statement) Notes payable (Note 6) Accounts payable	\$	13,222 195,000 27,462	\$	13,535 195,000 26,011
Accrued liabilities - Payroll Interest Other	\$	1,681 16,182 9,076 262,623	\$	1,888 15,796 7,801 260,031
CAMITMENTS AND CONTINGENCIES (Notes 1, 2, 7, 8 and 10)				
D'ERRED CREDITS (Note 8)	\$	40,909	\$	37,082
Cants (Notes 1 and 7): 'ederal grants cocal grants Less - Amortization	\$	810,865 17,859 828,724 67,804 760,920		609,517 16,349 625,866 50,569 575,297
	\$1	,551,775	SI	,344,747

STATEMENT OF REVENUE AND COST OF SERVICE

FOR THE YEARS ENDED DECEMBER 31, 1980 AND 1979

(\$000 Omitted)

	1980	1979
OPERATING REVENUE, not including local and Federal assistance:		
Passenger revenue	\$ 66,197	\$ 56,72
Other	2,650 \$ 68,847	\$ 58,99
OPERATING EXPENSES (Notes 1, 2, and 11):		
Labor	\$ 120,705	\$ 111,094
Fringe benefits (Note 10) Depreciation and amortization (Note 5)	62,916 27,498	57,846 25,757
Materials and supplies -	27,470	25,757
Fuel	6,572	4,277
Other	15,632	12,228
Utilities - Propulsion power	15,734	11,976
Other	8,138	6,065
Services	5,784	5,211
Casualty and liability costs	3,703	3,509
Other	2,682 \$ 269,364	2,857 \$ 240,820
	\$ 209,304	\$ 240,620
OPERATING LOSS	\$(200,517)	\$(181,829
OTHER INCOME, including interest of \$13,290,000		
in 1980 and \$13,197,000 in 1979	13,623	13,653
PROVISION FOR LIGHT RAIL VEHICLES (Note 8)	-	(2,433
INTEREST EXPENSE, including long-term debt interest of	(/0.100)	(27, 00)
\$26,774,000 in 1980 and \$26,066,000 in 1979	(42,100)	(37,801
RAILROAD COMMUTER EXPENSE, net of passenger revenues of \$11,554,000 in 1980 and \$9,505,000 in 1979		
(Note 5)	(45,220)	(38,347
COST OF SERVICE IN EXCESS OF REVENUE (Note 1)	\$(274,214)	\$(246,757

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY STATEMENT OF UNREIMBURSED COST OF SERVICE FOR THE YEARS ENDED DECEMBER 31, 1980 AND 1979

	(\$0	00 Omitted)
	1980	1979
BALANCE AT BEGINNING OF YEAR	\$ (16,806)	\$ (7,576)
ADD - Cost of service in excess of reve	nue (274,214)	(246,757)
DEDUCT:		
Net cost of service reimbursed by the of Massachusetts, a portion of which assessed to the cities and towns consthe Authority (Note 3)	is to be	165,412
Contract assistance for debt service Section 28 of Chapter 161A of the Gen	eral Laws,	26.040
as amended (Note 3)	29,524	26,840
Contract assistance, other (Note 3)	4,699	2,419
Federal operating assistance pursuant of the Urban Mass Transportation Act amended (Note 4)		27,422
Railroad commuter expense reimbursable entities outside the Authority's area		1,969
State diesel and gasoline fuel taxes able to the Authority in accordance we Section 2 of Chapter 563 of the Acts	ri th	431
Amortization of grants and deferred of (Notes 1 and 7)	redits	13,034
BALANCE AT END OF YEAR	\$ (13,094)	\$ (16,806)

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY STATEMENT OF CHANGES IN FINANCIAL POSITION FOR THE YEARS ENDED DECEMBER 31, 1980 AND 1979

FUNDS WERE USED FOR:		(\$000	Omitted)
FUNDS WERE PROVIDED BY: Grants from Federal and other sources \$274,214 \$246,757 Less - Charges to cost of service in excess of revenue which did not require funds - Depreciation of transportation property \$(26,761) \$(25,054); Amortization of deferred charges \$(1,087) \$(1,053); Provision for light rail vehicles - (2,190) \$(3,114); Interest accrued on loan from Federal Department of Transportation \$244,176 \$215,105 Additions to transportation property, net \$249,635 \$239,028 Forgiveness of Federal loan principal and interest 7,692 1,022 Increase (decrease) in special funds \$(19,755) 71,850 Payments of bonds payable \$13,222 \$(185) \$(245) Cants from Federal and other sources \$202,858 \$217,089 Net cost of service reimbursable by the Common-wealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority \$193,107 \$165,412 Issuance of long-term debt \$30,000 \$60,000 Contract assistance from the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes \$479 \$411 Reimbursement by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes \$499 \$411 Reimbursement for service provided to cities and towns outside the Authority's area \$3,386 \$1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company \$3,996 \$352,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$2,592 \$(7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash \$5,603 \$(5,733) Temporary cash investments \$6,400 \$(11,248) Accounts payable \$1,451 \$7,653 Accounts payable \$1,451 \$7,653 Accounts payable \$1,451 \$7,653 Accounts payable \$1,451 \$7,653 Accounts payable \$1,454 \$7,460 Accounts payable \$1,454 \$1,454 Accounts payable \$1,458 \$1,6489 Temporary cash investments \$1,653 \$1,454 Accounts pa		1980	1979
Less - Charges to cost of service in excess of revenue which did not require funds - Depreciation of transportation property (26,761) (1,053); Amortization of deferred charges (1,087) (1,053); Provision for light rail vehicles (2,431) Interest accrued on loan from Federal Department of Transportation (2,190) (3,114); Additions to transportation property, net 249,635 239,028 forgiveness of Federal loan principal and interest 7,692 1,022 Increase (decrease) in special funds (19,755) 71,850 Payments of bonds payable (19,755) 71,850 (185) (245); Other Total funds used (19,755) 71,850 (185) (245); Other Total funds used (18,50) (245); Grants from Federal and other sources (185) (245); Sayayayayayayayayayayayayayayayayayayay	FUNDS WERE USED FOR:		
Tevenue which did not require funds -		\$ 274,214	\$ 246,757
Deprectation of transportation property	The state of the s		
Amortization of deferred charges Provision for light rail vehicles Interest accrued on loan from Federal Department of Transportation Moditions to transportation roperty, net (2,190) Additions to transportation property, net (249,635 239,028 Forgiveness of Federal loan principal and interest (19,755) 71,850 Payments of bonds payable (19,755) 71,850 Other Total funds used (19,755) 71,850 FUNDS WERE PROVIDED BY: Grants from Federal and other sources Net cost of service reimbursable by the Commonwealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority Issuance of long-term debt (30,000 60,000 Contract assistance from the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes (29,328 27,422 Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes (29,328 27,422 Reimbursement for service provided to cities and towns outside the Authority's area Increase in deferred credits due primarily to settlement with Boeing Vertol Company Total funds provided (347,377 33,396 30,786 25,392 36,7927) CHANGES IN ELEMENTS OF WORKING CAPITAL INCREASE (DECREASE) OF (30,000 11,248) Materials and supplies (40,000 11,248) Materials and supplies (9,307) (22,308 36,200 11,248) Materials and supplies (9,307) (22,308 36,200 11,248) Increase (decrease) in current liabilities (313) (313) (3,766 36,200 11,248) Increase (decrease) in current liabilities (313) (313) (3,766 36,200 11,248) Increase (decrease) in current liabilities (313) (3,766 36,400 11,248) Increase (decrease) in current liabilities (313) (3,766 36,400 11,248) Increase (decrease) in current liabilities (313) (3,766 36,400 11,248) Increase (decrease) in current liabilities (313) (3,766 36,400 11,248)	7		
Provision for light rail vehicles			
Interest accrued on loan from Federal Department of Transportation		(1,087)	
ment of Transportation (2,190) (3,114) Additions to transportation property, net \$ 244,176 \$ 215,105 Forgiveness of Federal loan principal and interest 7,692 1,022 Increase (decrease) in special funds (19,755) 71,850 Payments of bonds payable 13,222 13,535 Other (185) \$ 494,785 \$ 540,295 FUNDS WERE PROVIDED BY: \$ 202,858 \$ 217,089 Net cost of service reimbursable by the Commonwealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting that Authority 193,107 165,412 Issuance of long-term debt 30,000 60,000 Contract assistance from the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes 34,223 29,259 Federal operating assistance 29,328 27,422 Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes 479 431 Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 Total funds provided		-	(2,431))
Additions to transportation property, net	•		
Additions to transportation property, net Forgiveness of Federal loan principal and interest Increase (decrease) in special funds Payments of bonds payable Other Total funds used Total funds T	ment of Transportation		
Forgiveness of Federal loan principal and interest	•		
Increase (decrease) in special funds		·	
Payments of bonds payable		•	-
Other Total funds used (185) § 494,785 (245) FUNDS WERE PROVIDED BY: 5494,785 \$ 540,295 Grants from Federal and other sources \$ 202,858 \$ 217,089 Net cost of service reimbursable by the Commonwealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority 193,107 165,412 Issuance of long-term debt 30,000 60,000 Contract assistance from the Commonwealth 34,223 29,259 Federal operating assistance 29,328 27,422 Reimbursements by the Commonwealth of Massachusetts 479 431 of state diesel and gasoline fuel taxes 479 431 Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 Total funds provided \$ 497,377 \$ 532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - \$ 5,603 \$ (5,733) Temporary cash investment	· · · · · · · · · · · · · · · · · · ·		
Total funds used \$\frac{3}{5} \frac{494,785}{5} \frac{5}{5540,295} \] FUNDS WERE PROVIDED BY: Grants from Federal and other sources \$202,858 \$217,089 Net cost of service reimbursable by the Commonwealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority \$193,107 \$165,412 Issuance of long-term debt \$30,000 \$60,000 Contract assistance from the Commonwealth of Massachusetts \$34,223 \$29,259 Federal operating assistance \$29,328 \$27,422 Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes \$479 \$431 Reimbursement for service provided to cities and towns outside the Authority's area \$3,386 \$1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company \$3,996 \$30,786 Total funds provided \$497,377 \$532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$2,592 \$30,786 Temporary cash investments \$6,400 \$11,248 Accounts receivable \$9,307 \$22,308 Materials and supplies \$2,340 \$3,200 Prepaid expenses \$148 \$35 \$5,184 \$35 \$5,185 \$8,562 Increase (decrease) in current liabilities - \$2,592 \$1,376 Current maturities of bonds payable \$1,451 7,653 Accounts payable \$1,451 7,663 Accounts payable \$1,454 7,460 \$2,592 \$16,489			
FUNDS WERE PROVIDED BY: Grants from Federal and other sources Net cost of service reimbursable by the Common- wealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority Issuance of long-term debt Contract assistance from the Commonwealth of Massachusetts Federal operating assistance Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes Reimbursement for service provided to cities and towns outside the Authority's area Increase in deferred credits due primarily to settle- ment with Boeing Vertol Company Total funds provided RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash Accounts receivable Accounts receivable Accounts receivable Prepaid expenses Increase (decrease) in current liabilities - Current maturities of bonds payable Accounts p			
Grants from Federal and other sources \$ 202,858 \$ 217,089 Net cost of service reimbursable by the Commonwealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority 193,107 165,412 Issuance of long-term debt 30,000 60,000 Contract assistance from the Commonwealth of Massachusetts 34,223 29,259 Federal operating assistance 29,328 27,422 Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes 479 431 Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 MESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 <td>Total funds used</td> <td>\$ 494,785</td> <td>\$ 540,295</td>	Total funds used	\$ 494,785	\$ 540,295
Net cost of service reimbursable by the Commonwealth of Massachusetts, a portion of which is to be assessed to the cities and towns constituting the Authority 193,107 165,412 Issuance of long-term debt 30,000 60,000 Contract assistance from the Commonwealth of Massachusetts 34,223 29,259 Federal operating assistance 29,328 27,422 Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes 479 431 Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 Total funds provided \$ 497,377 \$ 532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) 3,200 Prepaid expenses 5,5603 \$ 8,562 Increase (decrease) in current liabilities - \$ 5,184 \$ 8,562 Increase (decrease) in current liabilities - \$ (313) \$ 1,	FUNDS WERE PROVIDED BY:		
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Issuance of long-term debt	assessed to the cities and towns constituting		
Contract assistance from the Commonwealth of Massachusetts	the Authority		165,412
of Massachusetts 34,223 29,259 Federal operating assistance 29,328 27,422 Reimbursements by the Commonwealth of Massachusetts 479 431 Of state diesel and gasoline fuel taxes 479 431 Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 Total funds provided \$ 497,377 \$ 532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - \$ 5,603 \$ (5,733) Cash \$ 5,603 \$ (5,733) \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653	Issuance of long-term debt	30,000	60,000
Federal operating assistance Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes 479	Contract assistance from the Commonwealth		
Reimbursements by the Commonwealth of Massachusetts of state diesel and gasoline fuel taxes Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$2,592 \$(7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash \$5,603 \$(5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - Current maturities of bonds payable \$(313) \$1,376 Accounts payable (1,451 7,653) Accrued liabilities 1,454 7,460 \$2,592 \$16,489	of Massachusetts	•	
of state diesel and gasoline fuel taxes 479 431 Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 Total funds provided \$ 497,377 \$ 532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - \$ 5,603 \$ (5,733) Cash \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities \$ 2,592 \$ 16,489	Federal operating assistance	29,328	27,422
Reimbursement for service provided to cities and towns outside the Authority's area 3,386 1,969 Increase in deferred credits due primarily to settlement with Boeing Vertol Company 3,996 30,786 Total funds provided \$497,377 \$532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$2,592 \$(7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash \$5,603 \$(5,733) Temporrary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Fincrease (decrease) in current liabilities - Current maturities of bonds payable \$1,451 7,653 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$2,592 \$16,489	Reimbursements by the Commonwealth of Massachusetts		
towns outside the Authority's area Increase in deferred credits due primarily to settlement with Boeing Vertol Company Total funds provided RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash Temporary cash investments Accounts receivable Materials and supplies Prepaid expenses Increase (decrease) in current liabilities - Current maturities of bonds payable Accounts payable Accounts payable Accounts payable Accrued liabilities 1,451 7,653 1,454 7,460 8 2,592 8 16,489	•	479	431
Increase in deferred credits due primarily to settlement with Boeing Vertol Company Total funds provided RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$2,592 \$(7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash Temporary cash investments Accounts receivable Materials and supplies Prepaid expenses Increase (decrease) in current liabilities - Current maturities of bonds payable Accounts payable Accounts payable Accrued liabilities 1,451 7,653 Accrued liabilities 2,592 30,786 \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927) \$532,368 \$57,927 \$532,368 \$57,927 \$77,927) \$77,927}			
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Total funds provided \$ 497,377 \$ 532,368 RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash \$ 5,603 \$ (5,733)			
RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF \$ 2,592 \$ (7,927) CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - Cash \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489	* *		
CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF: Increase (decrease) in current assets - \$ 5,603 \$ (5,733) Cash \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 Accounts maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489			\$ 532,368
Increase (decrease) in current assets -	RESULTING IN A WORKING CAPITAL INCREASE (DECREASE) OF	\$ 2,592	\$ (7,927)
Cash \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489	CHANGES IN ELEMENTS OF WORKING CAPITAL CONSIST OF:		
Cash \$ 5,603 \$ (5,733) Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489	Increase (decrease) in current assets -		
Temporary cash investments 6,400 (11,248) Accounts receivable (9,307) 22,308 Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - (313) \$ 1,376 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489		\$ 5,603	\$ (5,733)
Accounts receivable Materials and supplies Prepaid expenses Increase (decrease) in current liabilities - Current maturities of bonds payable Accounts payable Accrued liabilities Accrued liabilities (9,307) 22,308 3,200 3,200 \$ \$ 5,184 \$ \$ 8,562 (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 \$ 7,460 \$ 2,592 \$ 16,489	Temporary cash investments		
Materials and supplies 2,340 3,200 Prepaid expenses 148 35 Increase (decrease) in current liabilities - \$ 5,184 \$ 8,562 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489		(9,307)	22,308
Prepaid expenses 148 35 \$ 5,184 \$ 8,562 Increase (decrease) in current liabilities - \$ (313) \$ 1,376 Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable 1,451 7,653 Accrued liabilities 1,454 7,460 \$ 2,592 \$ 16,489			
Increase (decrease) in current liabilities - Current maturities of bonds payable Accounts payable Accrued liabilities \$ 5,184		148	35
Increase (decrease) in current liabilities - Current maturities of bonds payable \$ (313) \$ 1,376 Accounts payable \$ 1,451 7,653 Accrued liabilities \$ 1,454 7,460 \$ 2,592 \$ 16,489	·	\$ 5,184	\$ 8,562
Accounts payable	Increase (decrease) in current liabilities -		
Accrued liabilities $\frac{1,454}{\$ 2,592}$ $\frac{7,460}{\$ 16,489}$	Current maturities of bonds payable	\$ (313)	\$ 1,376
\$ 2,592 \$ 16,489	Accounts payable	1,451	
	Accrued liabilities		0)
Increase (decrease) in working capital \$ 2,592 \$ (7,927)			
	Increase (decrease) in working capital	\$ 2,592	\$ (7,927)

STATEMENT OF BONDS PAYABLE DECEMBER 31, 1980 AND 1979

(Notes 6 and 7)

fassachusetts Bay Transportation Authority General Transportation System Bonds issued under General Laws, Chapter 161A, Section 23 of the Commonwealth of Massachusetts, are all payable in annual installments on March 1; interest is payable semi-annually on March 1 and September 1.

967 Series A Bonds dated March 1, 1967 - The proceeds of the sale of the 1967 Series A Bonds were required to be used for payment of \$40,000,000 of Bond Anticipation Notes outstanding and the balance of \$70,000,000 was required to be deposited in the Bond Proceeds account. These bonds were issued to provide funds for the purposes outlined below. The debt outstanding at December 31, 1980 and 1979 is as follows:

(\$000 Omitted)

Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
2007	\$1,900	3.81%	\$51,300	\$53,200
1982	350	3.75	700	1,050
2007	50	3.81	1,350	1,400
2007	650	3.81	17,550	18,200 \$73,850
	Maturity 2007 1982 2007	Year of Annual Payments 2007 \$1,900 1982 350 2007 50	Year of Maturity Annual Payments Interest Rate 2007 \$1,900 3.81% 1982 350 3.75 2007 50 3.81	Year of Maturity Annual Payments Interest Rate 1980 2007 \$1,900 3.81% \$51,300 1982 350 3.75 700 2007 50 3.81 1,350

170 Series A Bonds dated September 1, 1970 - The proceeds of the sale of the 1970 series A Bonds were required to be used for payment of \$5,365,000 of Bond Anticipation lotes outstanding and the balance of \$61,500,000 was required to be deposited in the lond Proceeds account. These bonds were issued to provide funds for the purposes outlined below. The debt outstanding at December 31, 1980 and 1979 is as follows:

(S000 Omitted)

Purpose	Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
press service trans- ortation facilities ses and other purposes	2010 1982	\$1,540 275	6.36%	\$46,100 550	s47,640 845
Irchase and improvement f the Cambridge Subway	1980	185	6.00	\$46,650	185 \$48,670

STATEMENT OF BONDS PAYABLE DECEMBER 31, 1980 AND 1979

(Notes 6 and 7) (Continued)

1972 Series A Bonds dated September 1, 1972 - The proceeds of the sale of the 172 Series A Bonds were used for payment of \$8,000,000 of Bond Anticipation Notes and he balance of \$32,000,000 was deposited in the Bond Proceeds account. These bonds were issued to provide funds for the purposes outlined below. The debt outstanding to December 31, 1980 and 1979 is as follows:

(\$000 Omitted)

	Purpose	Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
poi	ress service trans- rtation facilities and ner capital costs of the					
tra	ansportation system	2012	\$865	4.94%	\$27,580	\$28,44
Bus	acquisition	1984	295	5.40	1,160	1,455
Bus	garages	1984	165	5.40	660	825
					\$29,400	\$30,72

Bonds were deposited in the Bond Proceeds account. These bonds were issued to provide funds for the purposes outlined below. The debt outstanding at December 31, 1980 of 1979 is as follows:

(\$000 Omitted)

Purpose	Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
Express service trans- portation facilities and other capital costs of the transportation system	2014	\$1,800	6.09%	\$60,600	\$62,400
Bus and trackless trolley acquisition	1986	300	7.00	1,800 \$62,400	2,100

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY STATEMENT OF BONDS PAYABLE DECEMBER 31, 1980 AND 1979

(Notes 6 and 7) (Continued)

1977 Series A Bonds dated September 1, 1977 - The proceeds of the sale of 1977 Series A Bonds were deposited in the Bond Proceeds account. These bonds were issued to provide funds for the purposes outlined below. The debt outstanding at December 31, 1980 and 1979 is as follows:

(\$000	Omitted)
() 0 0 0	OMT C C CC /

Purpose	Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
Express service trans- portation facilities and other capital costs of the transportation system	2017	\$2,000	6.31%	<u>\$ 72,600</u>	\$ 73,400

979 Series A Bonds dated May 1, 1979 - The proceeds of the sale of 1979 Series A Bonds were deposited in the Bond Proceeds account. These bonds were issued to provide funds for the purposes outlined below. The debt outstanding at December 31, 1980 and 1979 is as follows:

(\$000 Omitted)

Purpose	Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
xpress service trans- portation facilities and other capital costs of the transportation system	2019	\$1,500	7.07%	\$ 58,300	\$ 60,000

Total MBTA Bonds Payable

\$340,250 \$351,145

980 Bond Anticipation Notes dated December 31, 1980

ne proceeds from the sale of these notes were deposited in the Bond Proceeds account and is being used for capital costs of the transportation system. The interest rate is 12.5% and the notes are due on May 1, 1981. The Authority intends to refinance the notes with a bond issue and has classified them in Long-term Debt, Bonds Payable on the palance sheet.

\$ 30,000 \$ -

STATEMENT OF BONDS PAYABLE DECEMBER 31, 1980 AND 1979 (Notes 6 and 7)

(Continued)

Boston Metropolitan District Bonds - These bonds were issued for transit purposes protection formation of the Massachusetts Bay Transportation Authority in 1964. On Construction Bonds, the remaining balances, after annual payments through the year of maturity as noted below, are payable in the year of maturity; however, the Authority intends to refinance these amounts. Therefore, bonds maturing in 1981 have been included a long-term debt.

(\$000 Omitted)

	`	, , , , , , , , , , , , , , , , , , , ,			
Purpose	Year of Maturity	Approximate Annual Payments	Average Interest Rate	1980	1979
Boston Elevated Railway					
Company and Metropolitan					
Transit Authority Debt	2020	\$1,000	4.48%	\$ 39,919	\$ 40,911
Purchase of City of Boston					
Transit Properties	2024	\$ 536	4.25%	\$ 23,595	\$ 24,13
Equipment Serial Bonds	1981	\$ 127	1.50%	\$ 127	\$ 25%
• •	1987	127	2.90	892	1,027
	1988	131	2.90	1,048	1,17
	1993	169	3.00	2,197	2,366
	1993	100	3.20	1,300	1,400
				\$ 5,564	\$ 6,21
Construction Bonds	1980	\$ 102	8.80%	-	\$ 4,59
	1981	4,488	9.00	\$ 4,488	-1/
	1981	84	1.50	3,866	3,95
	1982	22	2.10	1,034	1,05°
	1983	47	2.75	2,256	2,300
	1984	10	2.30	490	50
	1988	55	3.00	2,915	2,97
	1989	70	3.60	3,762	3,83
	1990	19	3.50	1,045	1,06
	1993	40	3.20	2,320	2,36
				\$ 22,176	\$ 22,62
Total BMD Bonds Pa	ıyable			\$ 91,254	\$ 93,89
Total Bonds Payabl	.e			\$461,504	\$445,03
•		Bonds Payable		13,222	13,53
Tabal Banda Banda	T			6449 292	¢/(31 50 i
Total Bonds Payabl	e - Long-te	TIII.		\$448,282	\$431,50

(1) Summary of Significant Accounting Policies

(a) Expense Classification

The operating expenses have been classified in accordance with the uniform system of accounts specified under Section 15 of the Urban Mass Transportation Act of 1964, as amended. In addition, Note 11 presents operating expenses in a functional format.

The classifications of expenses under the Section 15 chart of accounts are different than the classifications used by the Authority in its itemized budget and in reports of net cost of service by budget line due to differing definitions of the categories of expense (e.g., payments of vacation, holiday, and sick pay are classified as fringe benefits under the uniform system of accounts).

(b) Transportation Property

Transportation property is stated at historical cost. Such costs include MBTA labor costs for employees working on capital projects plus related fringe benefits and an allocated share of general and administrative costs.

(c) Depreciation

Depreciation is provided in the accounts based on the straight-line method at rates which are designed to amortize the original cost of the property over its estimated useful life. The major categories of transportation property and the depreciation rates used in 1980 are:

		Rates		Cost (\$000	Omitted)
	Low	High	Average	1980	1979
Ways and structures Equipment Land	1.33% 2.00%	10.00% 18.00%	2.03% 4.69% -	\$649,986 289,539 53,704 \$993,229	\$600,937 217,388 53,175 \$871,500

(d) <u>Deferred Charges</u>

Certain costs incurred by the Authority, primarily related to the expansion and modernization of the transportation system, have been capitalized. These costs are then amortized by charges to cost of service over the future periods in which the benefit to the Authority is estimated to be realized. In 1980 and 1979, amortization amounted to \$1,087,000 and \$1,053,000, respectively, which includes \$350,000 relating to railroad commuter expense each year.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 1980 AND 1979

(Continued)

(e) Casualty and Liability Costs

The Authority is a self-insurer on claims for injuries and damages to the extent of \$2,000,000 per accident. Insurance coverage is carried on claims in ex cess of that amount up to a maximum limit of \$15,000,000.

The Authority accounts for injuries and damages by charges to operating expenses as payments are made. In addition, the Authority has established a public liability fund amounting to \$2,252,000 at December 31, 1980 and \$1,649,000 at December 31, 1979.

(f) Workmen's Compensation Expense

The Authority is a self-insurer on claims for workmen's compensation 1 the extent of \$200,000 per occurrence. Insurance coverage is carried on each occur rence in excess of that amount up to a maximum limit of \$4,200,000 per occurrence The Authority accounts for these claims by charges to operating expenses as payment are made.

(g) Vacation

The Authority recognizes vacation expense by charges to operating expense in the year the vacation is taken. Unpaid vested vacation pay amounted to approx mately \$10,300,000 at December 31, 1980.

(h) Grants

The Authority receives capital expansion grants from certain governments agencies to be used for various purposes connected with the planning, modernizatid and expansion of transportation facilities and equipment. Amortization of thes grants is deferred until such time as the related facilities and equipment are pu into service. The grants are then amortized over the lesser of the estimated useful life of the assets or forty years, as a reduction of unreimbursed cost of service As of December 31, 1980, the Authority had incurred costs paid with construction funds totaling \$13,008,000. These expenditures will be reimbursed with Feder capital grant funds and reflected as grants when these funds are received.

(i) Unreimbursed Cost of Service

The legislative act under which the Massachusetts Bay Transportation Authority was established provides, among other things, that the Commonwealth Massachusetts shall reimburse the Authority for the net cost of service, as This amount is then assessed to the 79 cities and towns constituting the Authority to the extent it exceeds contract assistance (Note 3). The net cost service includes a charge equal to the payments made on long-term debt during the period, and does not include a charge for depreciation and certain amortization For financial reporting purposes, however, the Authority follows the general accepted method of depreciating and amortizing the cost of assets over the estimated useful lives.

The difference between the sum of depreciation and amortization expense and the sum of payments made on long-term debt and amortization of grants is accumulated in the unreimbursed cost of service account. For the year ended December 31, 1980, the sum of payments on long-term debt and amortization of grants exceeded the depreciation and amortization expense by \$2,988,000 and for 1979 the expenses exceeded payments and amortization by \$915,000.

In addition, the net cost of service does not include charges for interest expense on the Loans Payable to the Federal Department of Transportation (\$2,076,000 in 1980 and \$3,084,000 in 1979) (Note 9). However, for financial reporting purposes, these amounts have been charged to cost of service in accordance with generally accepted accounting principles. Interest accrued will be included in net cost of service in the year it is paid.

(2) 1980 Emergency Legislation

In December, 1980, legislation was passed (Chapter 581) which provided funding to allow the Authority to operate through the end of the year, and also (1) changed the management structure of the Authority; (2) provided that the Authority not enter into collective bargaining agreements which jeopardize matters of inherent management rights; (3) prohibited the Authority from entering into agreements which provide for pension benefits to its employees determined in a manner that includes overtime earnings or which provide for automatic cost-of-living salary adjustments; (4) limited the Authority's budgets for the calendar years 1981, 1982, and 1983 to 104 percent of the budget approved for the preceding year, unless the Advisory Board votes to exceed such a limit by a two-thirds majority; and (5) limited the assessments to the 79 cities and towns in the district to 104 percent of the assessment for the prior year beginning with the Authority's 1981 calendar year operations.

Certain labor unions have brought litigation against the Authority alleging that the legislation is in violation of existing collective bargaining agreements. In January, 1981, the court enjoined the Authority from implementation of certain sections of the legislation. The impact of the legislation on the Authority's future operations and the ultimate outcome of the litigation remains uncertain.

(3) Contract Assistance

(a) Debt Service

The legislative act authorizing the issuance of debt securities currently provides for participation by the Commonwealth of Massachusetts in the payment of annual debt service costs on bonds issued by the Authority as follows: on the \$175,000,000 of bonds issued prior to January 1, 1971, the debt service on \$144,800,000 is eligible for contract assistance at either 90% or 50%, as provided by contract; the annual debt service on \$250,000,000 of bonds and interest expense on \$30,000,000 of bond anticipation notes issued after January 1, 1971, is eligible for contract assistance at 90%. However, regardless of when issued, contract assistance, under the current statute, will not be available on the debt service of

more than \$452,000,000 of bonds outstanding at any one time. In 1980 and 1979, the Authority was eligible for assistance of \$29,524,000 and \$26,840,000, respectively.

(b) Operating Assistance

In 1979, the Commonwealth enacted legislation which provided the Authority with an amount of contract assistance for the net cost of service amounting to \$83,345,000. This additional contract assistance is not assessable to the 79 cities and towns constituting the Authority and is applied for assessment purposes as reduction of all cost items comprising the net cost of service of the Authority.

The 1980 Emergency Legislation (see Note 2) provided that the Commonwealt shall provide contract assistance amounting to seventy-five percent of the net cos of service resulting from expenses incurred in excess of the Advisory Board approve budget limit of \$302,130,000, up to an expense limit of \$343,167,000. The Authorit estimates that the total contract assistance, based on operating expenses for ne cost of service purposes of \$342,994,000, will be \$105,851,000. This estimat anticipates that the state will provide contract assistance on the net cost of service resulting from expenses incurred within the approved budget limit in percentage approximating that used in prior years. In prior years, the Commonwealt has provided contract assistance in an amount approximating fifty percent of the ne cost of service.

Contract assistance for commuter rail service outside the MBTA district i provided by statute each year in amounts to assure that the amounts billed to the regional transit authorities receiving the service do not exceed the portion paid commuted 1, 1978. The assistance under this statute amounted to \$4,699,000 an \$2,419,000 in 1980 and 1979, respectively. (See Note 5)

(4) Federal Operating Assistance (Department of Transportation)

Section 5 of the Urban Mass Transportation Act of 1964, as amended by th National Urban Mass Transportation Act of 1974, provided a six-year mass transportation assistance program for urbanized areas apportioned on the basis of a statutor formula. Urbanized areas may use Section 5 funds by developing specific capita assistance and/or operating assistance projects under the statutory requirements of the Act, as defined. The Authority has been designated the primary recipient for the Section 5 operating assistance for the Boston urbanized area. The Federal Public Transportation Act of 1978 extended the assistance through 1982 and revised the formula for apportioning funds to urbanized areas and limited certain amounts of the apportionment to specific purposes. For 1980 and 1979, Federal operating assistance amounted to \$29,328,000 and \$27,422,000, respectively.

(5) Railroad Commuter Subsidies

Under Chapter 161A Section 3(f) of the General Laws, the Authority maenter into agreements with private transportation companies, railroads and othe concerns providing for joint or cooperative operation of any mass transportation facility and for operation and use of any mass transportation facility and equipment for the account of the Authority.

The Authority has five-year operating agreements expiring in December, 1981 with the Boston and Maine Corporation, Debtor, (B & M) to provide commuter rail service north and west of Boston ("North Service") and south and west of Boston ("South Service"). The Authority has agreed to pay the B & M all direct costs of operating the service, plus an equitable share of indirect costs and certain incentive payments.

In the event that the Advisory Board fails to approve the annual budgetary provision for any of this service, these agreements shall terminate subject to certain labor protection obligations and liquidated damages in lieu of incentive payments for passengers carried.

The costs and related operating assistance of commuter rail service are summarized below:

	(000 Omitted)	
	1980	1979
Passenger revenues	\$11,554	\$ 9,505
Operating costs, excluding depreciation of Authority owned property devoted to commuter rail service	56,774	47,852
Railroad commuter expense reflected in statement of revenue and cost of service	\$45,220	\$38,347
Less operating assistance reflected in the statement of unreimbursed cost of service		
Federal operating assistance related to railroad commuter operations	4,292	3,021
State contract assistance	4,699	2,419
Reimbursement from entities outside the Authority's area	3,386	1,969
	\$32,843	\$30,938
Depreciation expense not included above	\$ 4,388	\$ 4,705

(6) Notes Payable

The following notes payable were outstanding as of December 31:

	1980			1979	
		(\$000 Omitted)		(\$	000 Omitted
	Interest	Principal		Interest	Principal
Due Date	Rate	Amount	Due Date	Rate	Amount
Mar. 13, 1981 Mar. 13, 1981 July 7, 1981	10.10% 7.00% 5.90%	\$ 75,000 50,000 70,000	Mar. 14, 1980 Mar. 14, 1980 July 7, 1980 July 7, 1980	6.50% 6.00% 5.85% 6.00%	\$124,800 200 55,000 15,000
		\$195,000			\$195,000

The \$125,000,000 of notes payable due March 13, 1981 were refinanced the due date at an interest rate of 10.75% due March 12, 1982.

The legislative act under which the Massachusetts Bay Transportatic Authority was established provides among other things, that if at any time any principal or interest is due on any bond or note issued or assumed by the Authority and funds to pay the same are not available, the Commonwealth of Massachusetts shall thereupon remit to the Authority the amount required to meet such obligations.

(7) Plant and Equipment Improvement Program

The Authority's continuing program for mass transportation development had projects in service and in various stages of approval, planning, and implementated with a total estimated cost of \$4.66 billion. As of December 31, 1980, project with an estimated cost of \$2.45 billion have been approved with \$1.74 billion to provided from Federal grants, \$617 million from Authority bonds, and \$90 millid from other sources. As of December 31, 1980, the Authority has expended \$1.0 billion on this program which has been financed through the receipt of \$810,865,0 of Federal grants, \$425,000,000 of Massachusetts Bay Transportation Authority General Transportation System Bonds, \$30,000,000 of Bond Anticipation Notes at other state and local grants.

The terms of the Federal grant contracts require, among other things, that Authority to utilize the equipment and facilities for the purpose specified in the grant agreement, maintain these items in operation for a specified time period which normally approximates the useful life of the equipment, and comply with the equipment opportunity and affirmative action programs as required by the Urban Matransportation Act of 1964, as amended. Failure to comply with these terms majeopardize future funding and require the Authority to refund a portion of the grants to the Federal Department of Transportation. In management's opinion, that Authority is in substantial compliance with these requirements as of December 3 1980.

Currently, the authorized debt ceiling for MBTA bonds is \$584,000,000. this amount \$195,000,000 may be issued only once, and any bonds maturing or redeem on or after January 1, 1983 may not be reissued, thereby reducing the amount bonds which may be outstanding at any one time. The issuance of debt to provide t

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required financing for the entire program is contingent upon legislative approval of a higher authorized debt limit. Additional bond authorization needs for the entire program are estimated to be \$324 million.

As of December 31, 1980, the Authority had outstanding commitments related to the improvement program amounting to approximately \$419 million.

(8) Green Line Vehicle Program

As part of the Authority's program for mass transportation improvement, the Authority entered into a grant contract with the Urban Mass Transportation Administration (UMTA) providing for the purchase of 175 light rail vehicles, spare components, and various engineering support at an estimated project cost of \$68,305,000, \$48,084,000 to be provided by an UMTA grant. In 1972, the Authority entered into a contract with Boeing Vertol Company for the purchase of these vehicles, components and related engineering support. The 135 vehicles delivered pursuant to this contract were plagued by a variety of operating and maintenance problems which led to a series of disputes between the manufacturer and the Authority.

On November 19, 1979, the Authority reached an agreement with Boeing Vertol Company to settle the disputes pertaining to this contract. Among other things, this agreement provided that the Authority retain the 130 cars in their possession, hold a time-limited claim on 5 cars held at the manufacturer for repair, pay the remaining balance of \$3,930,000 due on the 135 cars, relinquish all claims, including the progress payments of \$6,448,000 made to date, on the 40 cars which were never delivered and release Boeing Vertol from any further liability under the terms of the contract.

In exchange for these items, Boeing Vertol agreed to pay the Authority \$40,000,000 as a cash settlement, and provide modification kits required to bring the 135 vehicles up to an agreed upon specification. The \$40,000,000 was reduced by legal fees of \$799,000, final payment on the 135 cars of \$3,930,000 and payment for various test equipment of \$900,000. The resulting proceeds of \$34,371,000 were further reduced by various warranty receivables due the Authority of \$1,967,000 leaving \$32,404,000 of cash available at December 31, 1979 which is included in the balance sheet as other special funds. The Authority established a deferred credit of \$30,786,000 resulting from this transaction. The difference of \$1.6 million between the deferred credit and the cash available represents the net of \$4,830,000 representing the Federal and local shares of the final payment on the 135 cars and the test equipment, which was included in other special funds when received in 1980, and \$6,448,000, the cash paid for forty vehicles not received. This deferred credit will be amortized over the useful life of the equipment purchased with these funds and accounted for as a reduction in the unreimbursed cost of service.

The Urban Mass Transportation Administration has concurred with the agreement provided that the cash settlement and associated interest income be used along with the funds remaining from the original federal grant (approximately \$10 Million at December 31, 1980) to provide 175 vehicles with equivalent capacity available for revenue service. Authority management intends to utilize the funds to modify

existing vehicles and procure additional vehicles to meet this provision. Under current UMTA regulations, to the extent that the 175 car capacity requirement is not met, the Authority may be required to return a pro rata share of the total Federal grant amount received to the Department of Transportation.

In 1979, a provision was made for eight cars which were not available for service resulting in a charge to unreimbursed cost of service.

At December 31, 1980, the balance available in other special funds was \$39,904,000, which reflects the settlement proceeds from Boeing Vertol plus interest realized on the proceeds since the date of the settlement, less expenditures made for eligible project costs.

(9) Loans Payable to Federal Department of Transportation

In 1973, the Authority purchased 145 miles of right-of-way and relate properties in Eastern Massachusetts from the Penn Central Railroad. This purchas was financed with a \$19.5 million (6.875% interest rate) loan from the Federa Department of Transportation. The property acquired is pledged as security for the loan.

In 1976, the Authority purchased certain assets of the B & M, including right-of-way, revenue equipment, track and related properties. The cost of \$39.75 million was financed with a \$24,173,000 (8% interest rate) loan from the Federa Department of Transportation secured by the assets purchased, a \$12,262,000 Federa Department of Transportation grant, and \$3,065,000 of local funds.

Of the property purchased, right-of-way and yards of \$20,600,500 are no presently in transit use by the Authority and are being held for future expansion.

Both of the Federal Department of Transportation loan agreements provided for the Authority to repay the principal plus accrued interest at the earlier of (a) ten years from date of purchase, (b) the date a grant agreement for actual construction of mass transportation facilities is made, or (c) the date a decision is made not to use the property for mass transportation. The Penn Central agreement also provides that 75% of the principal shall only be payable out of the proceed from sale of the property, if sold.

In 1979, the Department of Transportation released the Authority from payment of \$1 million of principal and accrued interest, and in 1980 the Authority has recognized forgiveness of principal and accrued interest amounting to \$7,692,000 In accordance with the release, the Federal share (80%) of the total forgiveness is reflected as a Federal Grant with the local share to be contributed from bond funds

(10) Retirement Plans

The Authority provides pension benefits to employees through a contributory defined-benefit retirement plan. The plan currently requires the payment 1 the Authority of an amount equal to approximately 12% of the total payroll of the members of the plan. The amount of employee and Authority contributions to the plan

is intended to fund normal cost, interest on the unfunded liability and administrative expenses. The Authority is not legally obligated to fund the unfunded actuarial liability which approximated \$166,100,000 as of December 31, 1979, the date of the latest actuarial valuation.

Annual pension expense for the plan is computed based on a projected benefit method using a compounded annual interest rate of six percent and a salary increase factor of five percent. The cost of the plan to the Authority was approximately \$19,261,000 and \$17,087,000 for the years ended December 31, 1980 and 1979, respectively. The accumulated plan benefits and plan net assets, determined as of January 1, 1980, are as follows:

Actuarial present value of accumulated plan benefits:

 Vested
 \$287,545,000

 Nonvested
 10,686,000

 \$298,231,000

Net assets available for benefits \$206,795,000

The Authority has also entered into agreements with certain salaried employees to provide supplemental pension benefits after retirement. In order to receive the benefits, the employee must have at least ten years of service and be eligible under the provisions of the contributory retirement plan. At December 31, 1980, approximately 784 employees were either receiving supplemental benefits or will be eligible to receive them upon retirement. Annual expense under this plan is computed based upon an entry age normal method, forty year amortization of unfunded actuarial liability, an annual interest rate assumption of nine percent and a salary increase factor of seven percent compounded annually. The Authority's practice, under this plan, is to provide a reserve for pension costs as they accrue.

Supplemental benefits expense was \$1,175,000 for 1980 and \$924,000 for 1979. The accumulated plan benefits and plan reserve as of January 1,1980, the date of the last actuarial valuation, are as follows:

Actuarial present value of accumulated plan benefits:

 Vested
 \$6,541,051

 Nonvested
 2,744,654

 \$9,285,705

Reserve available for benefits \$1,560,707

Additionally, the Authority is obligated to pay pension benefits to retired employees not eligible for membership to the retirement plan and life and nedical insurance costs of retired employees. In 1980 and 1979, the expense to provide these benefits was \$4,042,000 and \$3,621,000, respectively.

(11) Supplementary Operating Expense Information

Operating expenses classified on a functional basis are as follows:

	(\$000 Omi	tted)
	1980	1979
Vehicle Operations		
Wages	\$ 60,516	\$ 54,978
Other .	58,009	46,870
	\$118,525	\$101,848
Vehicle Maintenance		
Wages	\$ 25,369	\$ 23,769
Other Other	25,973	21,971
	\$ 51,342	\$ 45,740
Non-Vehicle Maintenance		
Wages	\$ 17,006	\$ 16,909
Other	13,692	13,877
	\$ 30,698	\$ 30,786
General Administration		
Wages	\$ 17,814	\$ 15,438
Other	23,487	21,251
	\$ 41,301	\$ 36,689
Depreciation & Amortization	\$ 27,498	\$ 25,757
	\$269,364	\$240,820











